Md. State board of agriculture. State inspection and regulatory service. Official report

THE

# UNIVERSITY OF MARYLAND

SCHOOL OF CHEMISTRY

# QUARTERLY

ENTERED AT COLLEGE PARK (MD.) POST OFFICE AS SECOND-CLASS MATTER.

No. 89 AUGUST 1920

# FERTILIZER ANALYSES

Pages 4-28.

FERTILIZER REGISTRATIONS, First Supplement, Pages 29-33.

HOME MIXING, ETC., Pages 34-35.

A. F. WOODS, President.

H. B. McDONNELL, State Chemist.

Published for the Benefit of Agriculture, and Sent Free to Anyone Desiring a Copy

Names Wanted for Mailing-List

Issued in the Months of February, May, August and November

ADDRESS

SCHOOL OF CHEMISTRY, UNIVERSITY OF MARYLAND

COLLEGE PARK, MD.

ANALYSES OF

# Fertilizers Sold in Maryland

BY THE SCHOOL OF CHEMISTRY

## UNIVERSITY OF MARYLAND


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The tables on the following pages are made up of the results of the Analysis of fertilizers made at the College from March to July, 1920, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer, his name, or initials, will be found after the "place of sampling." If "place of sampling" is not given, the sample has been made up two or more samples taken at different places. Before sending samples of fertilizer for analysis, farmers should always send for blank forms and directions, stating the number of blanks wanted. One blank is required for each sample. No sample will be analyzed unless taken and sent as required by law.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential parts of the guarantee as stamped on the bags.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory: the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the following schedule:

---

*Resigned August 1.

## SCHEDULE FOR CALCULATING COMPARATIVE VALUES.

**In Mixed Fertilizers:**

| | | | |
|---|---|---|---|
| For Nitrogen, calculated as Ammonia | 40 | cts. per lb., | $8.00 per unit |
| For Potash ($K_2O$) | 15 | cts. per lb., | 3.00 per unit |
| For Available Phosphoric Acid | 7½ | cts. per lb., | 1.50 per unit |
| For Insoluble Phosphoric Acid | 2 | cts. per lb., | 0.40 per unit |
| For Insoluble Phosphoric Acid when from rock | 1 | ct. per lb., | 0.20 per unit |

**In Dissolved Rock:**

| | | | |
|---|---|---|---|
| Available Phosphoric Acid | 7½ | cts. per lb., | 1.50 per unit |
| Insoluble Phosphoric Acid | 1 | ct. per lb., | 0.20 per unit |

**In Tankage:**

| | | | |
|---|---|---|---|
| For Nitrogen, calculated as Ammonia | 40 | cts. per lb., | 8.00 per unit |
| For Phosphoric Acid | 3 | cts. per lb., | 0.60 per unit |

**In Ground Bone:**

| | | | |
|---|---|---|---|
| For Nitrogen, calculated as Ammonia | 40 | cts. per lb., | 8.00 per unit |
| For Phosphoric Acid | 3 | cts. per lb., | 0.60 per unit |

Special attention is invitated to the comparative values per unit in the above schedule. It is very much easier to make calculations on the unit basis. Thus, if Dried Blood containing 10 per cent of Ammonia sells for $8.00 per unit, it means that the selling price is the per unit value multiplied by the per cent of Ammonia, or in this case $80.00 per ton. In the case of a "Complete Fertilizer" with the analysis 2–8–2, if Ammonia is worth $8.00 per unit, Available Phosphoric Acid $1.50 per unit and Potash $3.00 per unit the value per ton would be $16.00, plus $12.00, plus $6.00, giving a value of $34.00 per ton.

Consumers, of fertilizer should, as a rule, purchase the "High-Grade" goods, as the price per unit and the cost of bags, handling, etc., is less for the actual amount of fertilizer received than is the case if "Low-Grade" fertilizers are used. The latter are frequently made by using large amounts of filler.

In the purchase of Acid Phosphate one should always demand 16 per cent goods or better. Acid Phosphate containing 18 per cent may sometimes be obtained. The consumers should be willing to pay more for the 18 per cent than for the 16 per cent goods. There is no excuse, whatever, for 10 per cent and 12 per cent Acid phosphate. It is made from the high grades by mixing in a make-weight or filler. Neither is there any excuse for Mixed Fertilizers containing less than 1 per cent of either Ammonia or Potash, if these are present. The Fertilizer Manufacturer's Association is now working on a scheme to eliminate "Low-Grade" fertilizers from the market and never use less than 2 per cent of Ammonia in an ammoniated fertilizer, never less than 2 per cent of Potash in fertilizer containing Potash, and not less than 14 per cent of total plant food, counting the Ammonia, Phosphoric Acid and Potash together. If this can be done, it will mean a great saving to the farmers, in the handling of extra weight, bags, freight, hauling, etc. However, the success of such a movement will depend to a considerable extent on the attitude of the buyer. If he insists on the stuff that is cheaper per ton, without regard to the amount of actual plant food, it is probable that he will be accommodated.

### FALL FERTILIZERS TO COST MORE.

There is to be a decided increase in the cost of fertilizers this fall, especially on phosphate. Acid phosphate, 16 per cent, is to cost from $30 to $32 per ton in Baltimore.

The schedule for comparative values for fall use should be about as follows: Ammonia $10 per unit, Available phosphoric acid $2 per unit, and Potash $4 per unit.

167274

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Alexandria Fertilizer & Chem. Co.,** | **Alexandria, Va.** | | | | | | | | | | |
| 26884 | Ammoniated Dissolved Bone.... | Baltimore.... | 2.02 | 2.00 | 2.08 | 2.00 | 1.10 | ..... | 8.90 | 8.00 | $36 19 | $34.00 |
| | **American Agricultural Chemical C** | **o., N. Y., N. Y.** | | | | | | | | | | |
| 39274 | All Crop Fish Guano..... | Baltimore..... | 1.08 | 1.00 | 1.04 | 1.00 | 1.35 | ..... | 11.35 | 10.00 | 29.33 | 26.00 |
| 26857 | Ammoniated Super Phos. (L. Gr.) | Chestertown..... | 1.50 | 1.00 | ..... | ..... | 1.15 | ..... | 8.65 | 8.00 | 25.44 | 20.00 |
| 39435 | Ammon'd Fertilizer "A," 1-10-0 | Ellicott City..... | 1.21 | 1.00 | ..... | ..... | .90 | ..... | 10.85 | 10.00 | 26.32 | 23.00 |
| 39441 | Basic Lime Phosphate (Low Grade) | Baltimore..... | ..... | ..... | ..... | ..... | 2.70 | 1.00 | 13.55 | 13.00 | 20.87 | 19.70 |
| 39317 | Coe-Mortimer Empire State Alk. Bone..... | Baltimore..... | ..... | ..... | 2.04 | 2.00 | 1.18 | ..... | 10.32 | 10.00 | 21.84 | 21.00 |
| 39265 | Coe-Mortimer 5% Potato Fertilizer... | Baltimore..... | 5.04 | 5.00 | 4.58 | 5.00 | .80 | ..... | 8.45 | 7.00 | 67.06 | 65.50 |
| 26837 | Coe-Mortimer Royal Trucker... | Baltimore..... | 3.12 | 4.00 | 2.64 | 4.00 | .90 | ..... | 9.25 | 8.00 | 47.12 | 56.00 |
| 39318 | Crescent Complete Manure..... | Baltimore..... | 2.01 | 2.00 | 2.96 | 3.00 | 2.48 | ..... | 8.02 | 8.00 | 37.98 | 37.00 |
| 26870 | Dissolved Animal Bone..... | Berwyn..... | 2.63 | 2.50 | ..... | ..... | 2.15 | ..... | 13.15 | 12.00 | 41.63 | 38.00 |
| 39436 | Dissolved Phosphate & Potash.. | Ellicott City..... | ..... | ..... | 2.12 | 2.00 | 1.00 | ..... | 11.05 | 10.00 | 23 14 | 21.00 |
| 39445 | Farmers Choice Brand..... | Hampstead..... | 1.16 | 1.00 | 2.08 | 2.00 | 1.00 | ..... | 8.85 | 8.00 | 29.20 | 26.00 |
| 26882 | Fine Ground Bone..... | Upper Marlboro... | 3.14 | 3.00 | ..... | ..... | *26.55 | *22.88 | ..... | ..... | 41.05 | 37.73 |
| 26854 | Fish Fertilizer..... | Baltimore..... | 2 10 | 2.00 | ..... | ..... | 1.68 | ..... | 10.92 | 10.00 | 33.85 | 31.00 |
| 39387 | Fish Guano..... | Baltimore..... | 1.01 | 1.00 | 1.06 | 1.00 | 2.08 | ..... | 7.57 | 8.00 | 23.45 | 23.00 |
| 26806 | 5-8-2 Fertilizer..... | Baltimore..... | 4.56 | 5.00 | 2.03 | 2.00 | .98 | ..... | 9.42 | 8.00 | 57.09 | 58.00 |
| 39377 | 5-7-3..... | Hurlock ..... | 5.02 | 5.00 | 3.02 | 3.00 | 2.38 | ..... | 7.62 | 7.00 | 61.60 | 59.50 |
| 39368 | 4-8-3 Fertilizer..... | Baltimore..... | 3.70 | 4.00 | 3.60 | 3.00 | 1.85 | ..... | 8.80 | 8.00 | 54.34 | 53.00 |
| 39394 | Matchless Potash Manure ..... | Laurel..... | 2.12 | 2.00 | 2 10 | 2.00 | 1.63 | ..... | 8.62 | 8.00 | 36.84 | 34.00 |
| 26848 | Monarch Potato Manure..... | Baltimore..... | 2.58 | 4.00 | 1.84 | 4.00 | .88 | ..... | 10.92 | 8.00 | 42.89 | 56.00 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39276 | Pathfinder 192 | Baltimore | 1.09 | 1.00 | 2.80 | 3.00 | 1.35 | ..... | 9.80 | 9.00 | 32.36 | 30.50 |
| 39395 | Pure Bone Meal | Laurel | 5.07 | 4.50 | ..... | ..... | *22.02 | *21.51 | ..... | ..... | 53.77 | 48.91 |
| 39304 | 7% Guano 7-8-3 | Baltimore | 6.09 | 7.00 | 3.19 | 3.00 | 1.13 | ..... | 8.92 | 8.00 | 72.12 | 77.00 |
| 39251 | 7-6-5 Fertilizer | Baltimore | 6.77 | 7.00 | 5.12 | 5.00 | 1.22 | ..... | 6.53 | 6.00 | 79.81 | 80.00 |
| 26827 | Superior Phosphate & Potash | Cumberland | ..... | ..... | 3.12 | 3.00 | 1.10 | ..... | 12.85 | 12.00 | 28.86 | 27.00 |
| 3 289 | 10-5-0 Fertilizer | Baltimore | 9.01 | 10.00 | ..... | ..... | .95 | ..... | 6.95 | 5.00 | 82 89 | 87.50 |
| 39277 | Top Dresser 5-8-2 | Brooklyn | 4.61 | 5.00 | 2.32 | 2.00 | .55 | ..... | 8.65 | 8.00 | 57.04 | 58.00 |
| 39355 | Vegetator 2-8-4 | Baltimore | 2.15 | 2.00 | 4.20 | 4.00 | 2.15 | ..... | 8.07 | 8.00 | 42.77 | 40.00 |
| | **A. A. C. Co., (Canton), Balto., Md.** | | | | | | | | | | | |
| 26858 | Baker's Fish Guano | Easton | 2.08 | 2.00 | 2.06 | 2.00 | 1.88 | ..... | 8.57 | 8.00 | 36.43 | 34.00 |
| 26859 | Baker's Standard Guano | Easton | 1.86 | 2.00 | 2.84 | 3.00 | 1 05 | ..... | 9.01 | 8.00 | 37.34 | 37.00 |
| 26903 | C. C. C. Special Compound | Brooklyn | 2.83 | 3.00 | 4.05 | 4.00 | .40 | ..... | 9.05 | 8.00 | 48.53 | 48.00 |
| 39278 | Chemical Special Mixture | Brooklyn | 2.12 | 2.00 | 2.36 | 2.00 | 1.00 | ..... | 11.15 | 10.00 | 41.17 | 37.00 |
| 39430 | Harrow Brand Crop Grower | Thurmont | 1.09 | 1.00 | 1.04 | 1.00 | 2.10 | ..... | 8.05 | 8.00 | 24:76 | 23.00 |
| 39431 | Potato and Vegetable Manure | Thurmont | 1.09 | 1.00 | 3.32 | 3.00 | 1.25 | ..... | 9.85 | 9.00 | 33.96 | 30.50 |
| 26873 | Spec. Potato & Veg. Manure 1916 | Relay | 1.76 | 1.50 | 1.20 | 1.00 | 1.08 | ..... | 11.37 | 10.00 | 35.17 | 30.00 |
| | **A. A. C. Co., (Detrick), Balto., Md.** | | | | | | | | | | | |
| 39334 | Boss Truck Grower | Baltimore | 2.03 | 2.00 | 3.60 | 4.00 | 1.58 | ..... | 9.22 | 8.00 | 41.50 | 40.00 |
| 26900 | Gold Basis 7-6-5 | Baltimore | 6.83 | 7.00 | 5.78 | 5.00 | 1.55 | ..... | 6.35 | 6.00 | 82.13 | 80.00 |
| 39407 | Imperial Compound | Baltimore | 1.16 | 1.00 | 2.02 | 2.00 | 1.58 | ..... | 8.92 | 8.00 | 29.35 | 26.00 |
| 39335 | Kangaroo Komplete Kompound | Baltimore | 2.10 | 2.00 | 2.84 | 3.00 | 2.28 | ..... | 8.17 | 8.00 | 38.49 | 37.00 |
| 26860 | Quickstep Phosphate | Hurlock | 3.36 | 3.00 | 3.66 | 4.00 | .48 | ..... | 9 02 | 8.00 | 51.58 | 48.00 |
| 39446 | Special Ammoniated Compound | Linwood | 1.01 | 1.00 | 1.06 | 1.00 | .70 | ..... | 9.70 | 8.00 | 26.09 | 23.00 |
| | **A. A. C. Co., (Lazaretto), Baltimore, Md.** | | | | | | | | | | | |
| 39447 | Ammoniated Phosphate | Hampstead | 1.02 | 1.00 | 1.08 | 1.00 | 2.85 | ..... | 7.50 | 8.00 | 23.79 | 23.00 |
| 26838 | Bone & Potash | Baltimore | ..... | ..... | 5.60 | 5.00 | .65 | ..... | 12.70 | 12.00 | 35.98 | 33.00 |
| 39388 | Excelsior "AAA" 1-7-1 (Low Gr.) | Baltimore | 1.09 | 1.00 | 1.05 | 1.00 | 1.93 | ..... | 7.97 | 7.00 | 24.60 | 21.50 |
| 39253 | Spec. Tobacco & Potato Fertilizer | Baltimore | 3.21 | 3.00 | 3.72 | 4.00 | .92 | ..... | 8.63 | 8.00 | 50.16 | 48.00 |
| 39437 | Tomato Compound | Baltimore | 1.02 | 1.00 | 4.48 | 4.00 | 1.15 | ..... | 8.15 | 8.00 | 34.29 | 32.00 |
| | **A. A.C. Co., (Nickerson), Easton, Md.** | | | | | | | | | | | |
| 39389 | Fish, Bone & Potash | Baltimore | 2.90 | 3.00 | 4.04 | 4.00 | 1.48 | ..... | 8.82 | 8.00 | 49.14 | 48.00 |
| 39356 | H. G. Vegetable Compound | Baltimore | 7.05 | 7.00 | 5.76 | 5.00 | 2.30 | ..... | 6.02 | 6.00 | 83.63 | 80.00 |
| | **A. A. C. Co., (Reese), Baltimore, Md.** | | | | | | | | | | | |
| 26875 | Truck Special | Baltimore | 2.70 | 3.00 | 4.04 | 4.00 | 1.00 | ..... | 8.95 | 8.00 | 47.55 | 48.00 |

*Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **A. A. C. Co., (Slingluff), Baltimore, Md.** | | | | | | | | | | | |
| 39254 | 10% Tobacco Plant Bed Fertilizer | Baltimore | 9.76 | 10.00 | 1.82 | 2.00 | 1.07 | ..... | 5.78 | 5.00 | $92.64 | $93.50 |
| | **A. A. C. Co., (Susquehanna), Baltimore, Md.** | | | | | | | | | | | |
| 39351 | Potato & Tobacco Phosphate | Baltimore | 2.01 | 2.00 | 3.30 | 3.00 | 4.30 | ..... | 6.20 | 8.00 | 37.00 | 37.00 |
| 26871 | XXV Phosphate | Beltsville | 1.03 | 1.00 | 1.24 | 1.00 | .80 | ..... | 8.85 | 8.00 | 25.56 | 23.00 |
| | **A. A. C. Co., (Wheler), Rutland, Vt.** | | | | | | | | | | | |
| 26855 | H. G. Acid Phosphate | Baltimore | ..... | ..... | ..... | ..... | 1.68 | ..... | 16.62 | 16.00 | 25.27 | 24.00 |
| 26861 | Potato Manure | Chestertown | 1.74 | 2.00 | 3.28 | 3.00 | 1.38 | ..... | 9.07 | 8.00 | 37.92 | 37.00 |
| | **A. A. C. Co., (Zell), Baltimore, Md.** | | | | | | | | | | | |
| 39357 | Acid Phosphate 16% | Baltimore | ..... | ..... | ..... | ..... | 1.70 | ..... | 17.70 | 16.00 | 26.89 | 24.00 |
| 39396 | Economizer Phosphate | Laurel | 1.02 | 1.00 | 1.90 | 2.00 | 1.23 | ..... | 8.92 | 8.00 | 27.73 | 26.00 |
| 39397 | Hustler Phosphate | Laurel | 1.13 | 1.00 | 2.68 | 1.00 | 1.43 | ..... | 9.47 | 9.00 | 31.86 | 24.50 |
| 39398 | Little Treasure (Low Grade | Laurel | 1.11 | 1.00 | 1.03 | 1.00 | 1.13 | ..... | 8.57 | 7.00 | 25.28 | 21.50 |
| 39408 | Special Compound | Baltimore | 2.70 | 3.00 | 4.26 | 4.00 | 1.73 | ..... | 8.67 | 8.00 | 48.08 | 48.00 |
| | **Acme Guano Co., Baltimore, Md.** | | | | | | | | | | | |
| 39267 | Potato Climax | Baltimore | 3.36 | 4.00 | 4.44 | 5.00 | .95 | ..... | 7.70 | 8.00 | 52.13 | 59.00 |
| 39268 | 7% Potato Guano 7-6-5 | Baltimore | 6.69 | 7.00 | 4.70 | 5.00 | .60 | ..... | 6.20 | 6.00 | 77.16 | 80.00 |
| | **American Fertilizing Co., Baltimore, Md.** | | | | | | | | | | | |
| 39279 | Acid Phosphate | Baltimore | ..... | ..... | ..... | ..... | 2.05 | ..... | 15.15 | 14.00 | 23.14 | 21.00 |
| 39280 | Acid Phosphate H. G. | Baltimore | ..... | ..... | ..... | ..... | .85 | ..... | 16.35 | 16.00 | 24.70 | 24.00 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39358 | Ammoniated Crop Compound... | Baltimore..... | .87 | 1.00 | 2.10 | 2.00 | 3.13 | 1.00 | 9.77 | 8.00 | 29.17 | 26.40 |
| 26876 | Best Crop Formula..... .... | Baltimore..... | 2.87 | 2.00 | 6.12 | 6.00 | 1.20 | 1.00 | 9.85 | 10.00 | 56.58 | 49.40 |
| 39336 | Best Grain and Grass Formula.. | Baltimore..... | 2 10 | 2.00 | 4.70 | 4.00 | 2.98 | ..... | 10.17 | 10.00 | 47.35 | 43.00 |
| 39337 | Best Potato Formula..... | Baltimore..... | 4.03 | 4.00 | 7.46 | 6.00 | 2.00 | 1.00 | 9.01 | 8.00 | 68.94 | 62.40 |
| 39281 | Champion Ammoniated Phosphate..... | Baltimore..... | 2.05 | 2.00 | ..... | ..... | 3.55 | ..... | 11.25 | 10.00 | 34.70 | 31.00 |
| 39419 | Champion Grain Grower..... | Baltimore..... | 1.01 | 1.00 | 3.72 | 4.00 | 2.10 | 1.00 | 9.05 | 8.00 | 33.66 | 32.40 |
| 39390 | Crop Formula ..... | Baltimore..... | 2.10 | 2.00 | 7.68 | 6.00 | 1.25 | 1.00 | 11.75 | 10.00 | 57.97 | 49.40 |
| 26821 | Eagle Crop Grower..... | Baltimore..... | 2.12 | 2.00 | 2.48 | 2.00 | .80 | 1.00 | 9.65 | 8.00 | 39.20 | 34.40 |
| 39399 | Eagle Superphosphate (L. Gr.). | Sykesville..... | .51 | .50 | ..... | ..... | 1.00 | 1.00 | 9.40 | 8.00 | 18.58 | 16.40 |
| 26862 | Dissolved Phosphate & Potash.. | Sharptown..... | ..... | ..... | 1 44 | 2.00 | 1.63 | ..... | 11.52 | 10.00 | 21.93 | 21.00 |
| 39338 | Early Truck Special..... | Baltimore..... | 5.36 | 5.00 | 6.38 | 5.00 | 1.18 | ..... | 7.22 | 6.00 | 73.32 | 64.00 |
| 39409 | Excelsior Guano..... .... | Baltimore..... | 2.17 | 2.00 | 5.44 | 5.00 | 2.23 | 1.00 | 9.87 | 8.00 | 49.38 | 43.40 |
| 26883 | Fine Ground Bone..... | Upper Marlboro.... | 2.71 | 3.00 | ..... | ..... | *23.02 | *22.90 | ..... | ..... | 35.49 | 37.74 |
| 39282 | Fish and Bone Compound..... | Baltimore..... | 2.22 | 2.00 | 3.58 | 3.00 | 2.85 | ..... | 8.45 | 8.00 | 42.32 | 37.00 |
| 26849 | Fish and Bone Special..... | Baltimore..... | 2.10 | 2.00 | ..... | ..... | 2.63 | 1.00 | 11.62 | 11.00 | 35.28 | 32.90 |
| 39283 | Formula for Wheat and Corn... | Baltimore..... | ..... | ..... | 5.04 | 5.00 | 2.65 | ..... | 10.25 | 10.00 | 31.03 | 30.00 |
| 39290 | Grain and Grass Grower..... | Baltimore..... | 1.67 | 1.00 | 3.56 | 3.00 | 2.63 | 1.00 | 10.32 | 9.00 | 40.57 | 30.90 |
| 26822 | Premium Grain & Clover Mix... | Baltimore..... | 2.37 | 2.00 | 2.76 | 2.00 | 1.70 | 1.00 | 11.55 | 12.00 | 45.25 | 40.40 |
| 39401 | Special Fish Guano..... | Sykesville..... | 1.02 | 1.00 | ..... | ..... | 2.60 | 1.00 | 11.70 | 10.00 | 26.75 | 23.40 |
| 39352 | Stable Manure Substitute..... | Baltimore.. ..... | 3.04 | 3.00 | 4.24 | 4.00 | 2.48 | .... | 7.92 | 7.00 | 49.91 | 46.50 |
| 39370 | Strawberry & Pea Special..... | Baltimore..... | 6.07 | 7.00 | 1.46 | 1.00 | 2.08 | 1.00 | 7.87 | 6.00 | 65.58 | 68.40 |
| 39291 | W. F. Truck Ammoniated Super Phosphate. | Baltimore..... | 4.37 | 5.00 | ..... | ..... | 3.25 | 1.00 | 9.35 | 8.00 | 50.29 | 52.40 |
| | **Armour Fertilizer Works, Balto., Md.** | | | | | | | | | | | |
| | | Baltimore..... | ..... | ..... | ..... | ..... | 1.15 | ..... | 16.35 | 16.00 | 24.76 | 24.00 |
| 39255 | Acid Phosphate 16%..... | Baltimore..... | 3.28 | 3.00 | ..... | ..... | *25.10 | *22.00 | ..... | ..... | 41.30 | 37.20 |
| 39319 | Bone Meal..... | Baltimore..... | 2.01 | 2.00 | 6.04 | 6.00 | .85 | ..... | 11.55 | 10.00 | 51.87 | 49.00 |
| 26897 | Cereal Special No. 1, 2-10-6..... | Baltimore..... | 2.02 | 2.00 | 4.50 | 4.00 | 1.78 | ..... | 11.17 | 10.00 | 47.13 | 43.00 |
| 26839 | Cereal Special No. 2..... | Baltimore..... | 2.10 | 2.00 | 2.16 | 2.00 | 1.60 | ..... | 12.65 | 12.00 | 42.90 | 40.00 |
| 39321 | Cereal Special No. 3..... | Baltimore..... | 2.02 | 2.00 | ..... | ..... | 2.65 | ..... | 12.25 | 12.00 | 35.60 | 34.00 |
| 26813 | Cereal Special No. 4 ..... | Baltimore..... | 1.16 | 1.00 | 2.06 | 2.00 | 1.10 | ..... | 8.75 | 8.00 | 29.03 | 26.00 |
| 39256 | Crop Grower..... | Baltimore..... | 5.37 | 5.00 | 3.50 | 3.00 | 1.60 | ..... | 8.10 | 8.00 | 66.25 | 61.00 |
| 39322 | 5-8-3..... | Baltimore..... | 2.17 | 2.00 | 5.02 | 5.00 | 1.40 | ..... | 8.90 | 8.00 | 46.33 | 43.00 |
| 39257 | Fruit & Root Crop Special..... | Baltimore..... | 1.91 | 2.00 | 2.16 | 2.00 | 1.88 | ..... | 8.52 | 8.00 | 35.29 | 34.00 |
| 26877 | General Fertilizer..... ..... | Chestertown..... | ..... | ..... | 15.04 | 14.00 | ..... | .... | ..... | ..... | ..... | ..... |
| 39378 | Genuine German Kainit..... | Baltimore..... | 2.01 | 2.00 | 2.13 | 2.00 | 2.13 | ..... | 8.92 | 8.00 | 36.70 | 34.00 |
| 39292 | Grain Grower ..... | Baltimore..... | 2.17 | 4.00 | ..... | ..... | 2.38 | ..... | 10.07 | 10.00 | 33.42 | 31.00 |
| 26814 | Grain Special..... | | | | | | | | | | | |

*Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Armour Fertilizer Works, Balto., Md.** | | | | | | | | | | | |
| 39258 | Phosphate and Potash No. 1 | Baltimore | ..... | ..... | 1.60 | 2.00 | 1.05 | ..... | 11.20 | 10.00 | $21.81 | $21.00 |
| 39339 | Potato Grower 4-10-0 | Baltimore | 4.21 | 4.00 | ..... | ..... | 1.80 | ..... | 10.30 | 10.00 | 49.65 | 47.00 |
| 39293 | Potato & Vegetable Special | Baltimore | 4.02 | 4 00 | 3.85 | 4.00 | 1.60 | ..... | 9.25 | 8.00 | 58.23 | 56.00 |
| 39438 | Raw Bone Meal | Baltimore | 5.15 | 4.50 | ..... | ..... | *23.55 | *21.50 | ..... | ..... | 55.33 | 48.90 |
| 39259 | Royal Ammoniated Fertilizer | Baltimore | 1.25 | 1.00 | 4.03 | 4.00 | 1.32 | ..... | 8.68 | 8.00 | 35.64 | 32.00 |
| 39294 | 7-6-3 Fertilizer | Baltimore | 6.76 | 7.00 | 3.36 | 3.00 | 1.00 | ..... | 7.15 | 6.00 | 75.29 | 74 00 |
| 39245 | 7% Trucker | Baltimore | 6.76 | 7.00 | 5.28 | 5.00 | 1.05 | ..... | 6.45 | 6.00 | 80.02 | 80.00 |
| 39295 | Tobacco Special | Baltimore | 2.92 | 3.00 | 3.02 | 3.00 | 1.33 | ..... | 9.17 | 8.00 | 46.71 | 45.00 |
| 26815 | Tomato Grower | Baltimore | 2.10 | 2.00 | 2.30 | 2.00 | 2.05 | ..... | 8.45 | 8.00 | 37.20 | 34.00 |
| 39244 | Truckers Favorite | Baltimore | 5.10 | 5.00 | 5.03 | 5.00 | 1.50 | ..... | 8.80 | 8.00 | 69.69 | 67.00 |
| 26878 | Tuscarora Big Four | Baltimore | 2.13 | 2.00 | 4.16 | 4.00 | 2.25 | ..... | 7.45 | 7.00 | 41.60 | 38.50 |
| 26840 | 12-3 Fertilizer | Baltimore | ..... | ..... | 3.18 | 3.00 | 1.13 | ..... | 12.27 | 12.00 | 28.18 | 27.00 |
| 26841 | 2-8-3 Fertilizer | Baltimore | 1.86 | 2.00 | 3.68 | 3.00 | 1.78 | ..... | 8.42 | 8.00 | 39.26 | 37.00 |
| 39391 | Wheat, Corn and Oats Special (L. Gr.) | Baltimore | 2.12 | 1.00 | 1 32 | 1.00 | .93 | ..... | 9.07 | 7.00 | 34.90 | 21.50 |
| | **Baltimore Fertilizer Co., Balto., Md.** | | | | | | | | | | | |
| 39448 | Honest Acid Phosphate 16% | Glyndon | ..... | ..... | ..... | ..... | .10 | ..... | 19.15 | 16.00 | 28.75 | 24.00 |
| 39323 | Honest Ammoniated Bone | Baltimore | 1.93 | 2.00 | 1.89 | 2.00 | .95 | 1.00 | 8.65 | 8.00 | 34.47 | 34.40 |
| 39449 | Honest Crop Grower | Hampstead | .85 | 1.00 | 1.24 | 1.00 | 2.83 | 1.00 | 9.37 | 8.00 | 25.53 | 23.40 |
| 39324 | Honest Potato Grower | Baltimore | 1.06 | 1.00 | 3.14 | 3.00 | 1.55 | ..... | 9.75 | 9.00 | 33.15 | 30.50 |
| 39241 | Honest 7% Guano | Baltimore | 6 37 | 7.00 | ..... | ..... | .82 | ..... | 6.63 | 6.00 | 61.24 | 65.00 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39342 | Honest 12 & 2 | Baltimore | | | 2.08 | 2.00 | 1.40 | 1.00 | 12.75 | 12.00 | 25.65 | 24.20 |
| 39325 | No. 1 Potato and Vegetable Grower | Baltimore | 4.16 | 4.00 | 3.73 | 4.00 | 1.35 | | 8.55 | 8.00 | 57.84 | 56.00 |
| 39371 | Old Honesty Fertiizer (L. Gr.) | Baltimore | 1.01 | 1.00 | | | 1.48 | 1.00 | 8.67 | 8.00 | 21.68 | 20.40 |
| 39403 | 1-10 | Bel Air | 1.59 | 1.00 | | | 2 00 | | 11.60 | 10.00 | 30.92 | 23.00 |
| 39402 | 2-10 | Bel Air | 1.93 | 2.00 | | | 1.50 | | 9.55 | 10.00 | 30.37 | 31.00 |
| | **Baltimore Pulverizing Co., Balto., Md.** | | | | | | | | | | | |
| 39353 | S. C. Phosphate 16% | Baltimore | | | | | 3.10 | | 14.65 | 16.00 | 22.60 | 24.00 |
| 26842 | Acme Sweet Potato | Baltimore | 1.69 | 2.00 | 5.12 | 6.00 | .93 | | 8.62 | 6.00 | 42.18 | 43.00 |
| 26901 | Ammoniated Fish Guano | Chestertown | 3.53 | 3.00 | | | .52 | | 7.48 | 8.00 | 39.67 | 36.00 |
| 39410 | Corn & Grain Grower | Baltimore | | | 1.16 | 1.00 | 2.38 | | 13.37 | 12.00 | 24.02 | 21.00 |
| 39420 | Corn King Fertilizer | Baltimore | 1.04 | 1.00 | 3.04 | 3.00 | 1.23 | | 8.22 | 8.00 | 30.26 | 29.00 |
| 26850 | Farmers Favorite | Baltimore | 2.42 | 2.00 | 1.16 | 1.00 | .50 | | 8.10 | 8.00 | 35.19 | 31.00 |
| 39411 | Harvest King No. 2 | Baltimore | 1.26 | 1.00 | 2 10 | 2.00 | 2.25 | | 9.75 | 10.00 | 31.91 | 29.00 |
| 39412 | Penniman's Excelsior | Baltimore | | | 2.04 | 2.00 | 2.95 | | 10.75 | 12.00 | 22.84 | 24.00 |
| 26816 | Penniman's Special Guano | Baltimore | 1.02 | 1.00 | 1.48 | 1.00 | 3.08 | | 8 12 | 8.00 | 26 01 | 23.00 |
| 26898 | Penniman's Tobacco Grower | Baltimore | 2.15 | 2.00 | 2.44 | 2.00 | .90 | | 10.40 | 9.00 | 40.48 | 35.50 |
| 39354 | Potato Climax Fertilizer | Baltimore | 3.57 | 4.00 | 5.44 | 5.00 | .88 | | 8.32 | 8.00 | 57.71 | 59.00 |
| 26843 | Practical Fertilizer (L. Gr.) | Baltimore | .90 | 1.00 | | | 1.15 | 1.00 | 9.05 | 8.00 | 21.24 | 20.40 |
| 26887 | Special Potato | Baltimore | 2.03 | 2.00 | 2.28 | 3.00 | .85 | | 8.85 | 7.00 | 36.70 | 35.50 |
| 39372 | Special Strawberry Compound | Baltimore | 4.20 | 4.00 | 3.84 | 3.00 | 1.55 | | 7.02 | 7.00 | 56.27 | 51.50 |
| | **Baugh & Sons Co., Balto., Md.** | | | | | | | | | | | |
| 39359 | Acid Phosphate 14% | Baltimore | | | | | 1.68 | | 15.27 | 14.00 | 23.25 | 21.00 |
| 39296 | Acid Phosphate 16% | Baltimore | | | | | 1 10 | | 17.20 | 16.00 | 26.02 | 24.00 |
| 39247 | Animal Base & Potash Comp. | Baltimore | 1.91 | 2.00 | 2.04 | 2.00 | 1.30 | | 8.15 | 8.00 | 34.15 | 34.00 |
| 39248 | Complete Animal Base Fert. | Baltimore | 2.08 | 2.00 | 5.16 | 5.00 | .80 | | 8.60 | 8.00 | 45.34 | 43.00 |
| 39413 | Corn & Oats Fertilizer | Baltimore | 2.01 | 2.00 | | | 1.30 | | 11.10 | 10.00 | 33.25 | 31.00 |
| 39297 | Double Eagle Fertilizer | Baltimore | 2.12 | 2.00 | 1.38 | 1.00 | 1.58 | | 9.72 | 9.00 | 36.31 | 32.50 |
| 39343 | Excelsior Guano | Baltimore | 1.01 | 1.00 | 4.04 | 4.00 | 1.83 | | 8.27 | 8.00 | 33.34 | 32.00 |
| 26905 | Fish, Bone & Potash | Baltimore | 4.25 | 4.00 | 4.08 | 4.00 | .55 | | 8.65 | 8.00 | 59.44 | 56.00 |
| 39298 | Fish, Bone Guano | Baltimore | 2.02 | 2.00 | | | .90 | | 11.50 | 10.00 | 33.77 | 31.00 |
| 39284 | Fish Mixture 2-8-2 | Baltimore | 2.05 | 2.00 | 2.06 | 2.00 | 1.75 | | 9.90 | 8.00 | 38.13 | 34.00 |
| 39285 | General Crop Grower | Baltimore | 1.77 | 1.00 | 1.32 | 1.00 | 1.40 | | 8.25 | 8.00 | 31.06 | 23.00 |
| 39260 | Grand Rapid Guano | Baltimore | 2.88 | 3.00 | 2.68 | 3.00 | 1.00 | | 8.55 | 8.00 | 44.31 | 45.00 |
| 39404 | Half & Half Mixture | Rockville | 1.67 | 1.50 | | | 9.10 | | 11.40 | 12.00 | 34.10 | 30.00 |
| 26893 | Maximum Potato Guano | Baltimore | 7.02 | 7.00 | 3.04 | 3.00 | .63 | | 6.17 | 6.00 | 74.79 | 74.00 |
| 39242 | New Process 10% Guano | Baltimore | 9.49 | 10.00 | | | .45 | | 6.65 | 5.00 | 86.08 | 87.50 |
| 39249 | Old Stand-By Dis. Animal Base | Baltimore | 1.88 | 2.00 | | | 1.50 | | 12.60 | 12.00 | 34.54 | 34.00 |
| 39299 | Peninsula Grain Producer (L. Gr.) | Baltimore | 1.64 | 1.00 | | | 1.65 | | 9.15 | 9.00 | 27.51 | 21.50 |

*Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Baugh & Sons Co., Balto., Md.** | | | | | | | | | | | |
| 39300 | Peruvian Guano Substitute | Baltimore | 5.12 | 5.00 | 5.16 | 5.00 | 1.25 | ..... | 7.25 | 6.00 | $67.82 | $64.00 |
| 39340 | Phosphate & Potash Mixture | Baltimore | ..... | ..... | 4.60 | 5.00 | 1.00 | ..... | 12.20 | 12.00 | 32.30 | 33.00 |
| 26899 | Potato Guano 7% | Baltimore | 6.81 | 7.00 | 5.04 | 5.00 | .75 | ..... | 6.65 | 6.00 | 79.88 | 80.00 |
| 39432 | Pure Steamed Bone | Silver Spring | 2.42 | 2.00 | ..... | ..... | *26 25 | *25.00 | ..... | ..... | 35.11 | 31.00 |
| 39286 | Raw Bone Meal | Baltimore | 4.74 | 4.00 | ..... | ..... | *19.60 | *18.30 | ..... | ..... | 49.68 | 42.98 |
| 39301 | Soluble Alkaline Super Phos | Baltimore | ..... | ..... | 1.88 | 2.00 | .90 | ..... | 10.70 | 10.00 | 21.87 | 21.00 |
| 39307 | Special Potato Manure | Baltimore | 2.22 | 2.00 | 4.39 | 5.00 | 1.40 | ..... | 8.85 | 8.00 | 44.77 | 43.00 |
| 39341 | 10% Peruvian Guano | Baltimore | 11.95 | 10.00 | 2.56 | 2.00 | .25 | ..... | 5.15 | 5.00 | 111.11 | 93.50 |
| 39344 | Tomato Compound | Baltimore | 2.08 | 2.00 | 2.12 | 2.00 | 2.00 | ..... | 8.55 | 8.00 | 36.63 | 34.00 |
| 39345 | Tri-Unit Potato Guano | Baltimore | 5.05 | 5.00 | 3.04 | 3.00 | .48 | ..... | 9.42 | 8.00 | 63.84 | 61.00 |
| 39261 | Truckers Favorite | Baltimore | 3.21 | 3 00 | ..... | ..... | 1.37 | ..... | 10.38 | 10.00 | 41.80 | 39.00 |
| 26807 | White's Tomato Special (L. Gr.) | Baltimore | 1.13 | 1.00 | ..... | ..... | 1.15 | ..... | 9.65 | 9.00 | 23.98 | 21.50 |
| 26808 | White's Tomato Special | Baltimore | 2.12 | 2.00 | 2.04 | 2.00 | 1.05 | ..... | 9.20 | 8.00 | 37.30 | 34.00 |
| | **C. H. Braun Sons, Halethorp, Md.** | | | | | | | | | | | |
| 39373 | 4-8-6 Fertilizer | Colgate | 4.06 | 4.00 | 6.30 | 6.00 | 8.63 | ..... | 6.32 | 8.00 | 64 31 | 62.00 |
| 39421 | 4-8-3 Fertilizer | Baltimore | 4.03 | 4.00 | 2.76 | 3.00 | 7.65 | ..... | 6.02 | 8.00 | 52.61 | 53.00 |
| 39472 | Manure Salts | Colgate (S. S. M.) | ..... | ..... | 22.38 | 25.00 | .... | ..... | ..... | ..... | ..... | ..... |
| 39422 | 3-10-0 Fertilizer | Baltimore | 2.82 | 3.00 | ..... | ..... | 8.03 | ..... | 8.82 | 10.00 | 38.25 | 39.00 |
| 39423 | 3-10-2 Fertilizer | Baltimore | 2.51 | 3.00 | 1.46 | 2.00 | 9.20 | ..... | 9.30 | 10.00 | 42.09 | 45.00 |
| 39424 | 2-8-2 Fertilizer | Baltimore | 1.76 | 2.00 | 1.84 | 2.00 | 7.98 | ..... | 6.22 | 8.00 | 32.12 | 34.00 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Herbert Bryant's Son, Alexandria, Va.** | | | | | | | | | | | |
| 39433 | Stand. Empress Amm'd Bone.. | Silver Spring ..... | 1.50 | 1.25 | ..... | ..... | 1.65 | ..... | 11.10 | 10.00 | 29.31 | 25.00 |
| 26872 | Standard Fish & Bone..... | Laurel..... | 2.04 | 2.00 | ..... | ..... | 2.63 | ..... | 10.82 | 10.00 | 33.60 | 31.00 |
| | **Central Chemical Co., Hagerstown, Md.** | | | | | | | | | | | |
| 26828 | Acme Brand, (Low Grade)..... | Hagerstown..... | 1.06 | 1.00 | ..... | ..... | 1.25 | ..... | 9.95 | 8.00 | 23.91 | 20.00 |
| 26829 | Canners Special..... | Hagerstown..... | 1.48 | 2.00 | 6.48 | 5.00 | 1.15 | ..... | 6.95 | 8.00 | 42.17 | 43.00 |
| 26830 | Commonwealth..... | Boonsboro ..... | ..... | ..... | 2.06 | 2.00 | 1.15 | ..... | 11.45 | 10.00 | 23.59 | 21.00 |
| 26831 | Dissolved Phosphate..... | Boonsboro ..... | ..... | ..... | ..... | ..... | .28 | ..... | 17.52 | 16.00 | 26.34 | 24.00 |
| 26832 | Eclipse Brand..... | Boonsboro ..... | 1.57 | 2.00 | 1.56 | 3.00 | .63 | ..... | 12.22 | 10.00 | 35.82 | 40.00 |
| 39405 | Groall Dissolved Phosphate..... | Gaithersburg ..... | ..... | ..... | ..... | ..... | 1.98 | ..... | 17.42 | 16.00 | 26.53 | 24.00 |
| 39406 | Groall Eclipse Brand..... | Gaithersburg..... | 1.50 | 2.00 | 1.48 | 3.00 | 1.00 | ..... | 10.70 | 10.00 | 32.89 | 40.00 |
| 26833 | Farmers Compound..... | Hagerstown ..... | 1.45 | 1.50 | ..... | ..... | 1.10 | ..... | 14.35 | 14.00 | 33.57 | 33.00 |
| 26834 | Fish Compound..... | Boonsboro ..... | 1.19 | 1.50 | ..... | ..... | 1.10 | ..... | 12.80 | 10.00 | 29.16 | 27.00 |
| 26835 | Pride of the Valley..... | Boonsboro ..... | 1.02 | 1.00 | ..... | ..... | 1.08 | ..... | 10 77 | 10.00 | 24.75 | 23.00 |
| 26836 | Raw Bone..... | Hagerstown..... | 4.52 | 4.50 | ..... | ..... | *21.75 | *21.50 | ..... | ..... | 49.21 | 48.90 |
| 26823 | Truckers Potash Special..... | Baltimore..... | 1.64 | 2.00 | 3.02 | 3.00 | 1.20 | ..... | 8.55 | 8.00 | 35.49 | 37.00 |
| 26824 | Valley Mixture 2-8-2..... | Baltimore..... | 2.37 | 2.00 | 1.52 | 2.00 | 1.13 | ..... | 8.01 | 8.00 | 35.99 | 34.00 |
| | **Chesapeake Chem. Co., Balto., Md.** | | | | | | | | | | | |
| 39360 | Favorite Guano..... | Baltimore..... | 2.35 | 2.00 | 1.86 | 2.00 | 1.95 | ..... | 10.40 | 10.00 | 40.76 | 37.00 |
| 39361 | Fish, Tobacco Guano..... | Baltimore..... | 2.44 | 3.00 | 3.06 | 3.00 | 3.78 | ..... | 9.67 | 8.00 | 44.72 | 45.00 |
| 39374 | 5-6-5 Special..... | Baltimore..... | 4.83 | 5.00 | 5.34 | 5.00 | 2.90 | ..... | 7.05 | 6.00 | 66.40 | 64.00 |
| 39269 | 7-6-5 Special..... | Baltimore..... | 6.84 | 7.00 | 4.74 | 5.00 | .75 | ..... | 6.95 | 6.00 | 79.67 | 80.00 |
| 26844 | 2-8-3 Special..... | Baltimore..... | 1.50 | 2.00 | 3.08 | 3.00 | .48 | ..... | 9.82 | 8.00 | 36.16 | 37.00 |
| | **Columbia Guano Co., Balto., Md.** | | | | | | | | | | | |
| 39392 | Potato Guano..... ..... | Baltimore..... | 3.92 | 5.00 | 4.60 | 5.00 | 1.33 | ..... | 8.97 | 7.00 | 59.15 | 65.50 |
| | **Josiah Cope & Co., Balto., Md.** | | | | | | | | | | | |
| 26879 | Excelsior No. 2..... | Baltimore..... | 2.01 | 2.00 | ..... | ..... | .78 | ..... | 11.77 | 10.00 | 34.05 | 31.00 |
| 39346 | Potato, Corn & Tobacco..... | Baltimore..... | 2.08 | 2.00 | 4.28 | 4.00 | 1.50 | ..... | 9.35 | 8.00 | 44.11 | 40.00 |
| 39302 | Spring & Fall Mixture..... ..... | Baltimore..... | 1.19 | 1.00 | 1.92 | 2.00 | 1.28 | ..... | 9.02 | 8.00 | 29.32 | 26.00 |
| | **L. E. P. Dennis & Son, Crisfield, Md.** | | | | | | | | | | | |
| 26864 | Economy..... | Crisfield ..... | 1.67 | 2.00 | 3.08 | 3.00 | 1.50 | ..... | 8.80 | 8.00 | 36.40 | 37.00 |
| 26865 | Klondike Fish Mixture..... | Crisfield ..... | 1.55 | 1.00 | 1.86 | 2.00 | 1.50 | ..... | 10.10 | 10.00 | 33.73 | 29.00 |
| | **Dudley & Carpenter, Balto., Md.** | | | | | | | | | | | |
| 26880 | Crop Grower..... | Baltimore..... | 1.57 | 2.00 | 1.74 | 2.00 | 1.20 | ..... | 8.80 | 8.00 | 31.46 | 34.00 |

*Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Edelen Bros., Baltimore, Md.** | | | | | | | | | | | |
| 39440 | Dissolved Phosphate | Baltimore | ..... | ..... | ..... | ..... | .60 | ..... | 15.80 | 14.00 | $23.82 | $21.00 |
| 39425 | Special Wheat & Grain | Baltimore | 1.21 | 1 00 | 1.08 | 1.00 | 1.38 | ..... | 8.97 | 8.00 | 26.93 | 23.00 |
| | **Eureka Fertilizer Co., Perryville, Md.** | | | | | | | | | | | |
| 26866 | Fish & Bone (Low Grade) | Perryville | .87 | .50 | ..... | ..... | 2.85 | 1.00 | 7.90 | 10.00 | 19.95 | 19 40 |
| 26867 | Grain & Grass | Perryville | 1.02 | 1.00 | ..... | ..... | 1.38 | 1.00 | 9.82 | 10.00 | 23.44 | 23.40 |
| | **W. S. Farmer & Co., Baltimore, Md.** | | | | | | | | | | | |
| 39347 | Acid Phosphate High Grade | Baltimore | ..... | ..... | ..... | ..... | 1.68 | ..... | 16.07 | 16.00 | 24.45 | 24.00 |
| 26809 | All Crop Mixture No. 2 | Baltimore | 1.59 | 2.00 | ... .. | ..... | 1.70 | ..... | 10.02 | 10.00 | 28.43 | 31.00 |
| 26810 | All Crop Mixture No. 3 | Baltimore | 3.04 | 3.00 | ..... | ..... | 1.68 | ..... | 10.72 | 10.00 | 41.07 | 39.00 |
| 39326 | Anne Arundel Trucker | Baltimore | 5.29 | 5.00 | 2.23 | 2.00 | 1.30 | ..... | 8.90 | 8.00 | 62.88 | 58.00 |
| 26845 | B. & P. Phosphate | Baltimore | ..... | ..... | 2.05 | 2.00 | 1.40 | ..... | 11.02 | 10.00 | 22.96 | 21.00 |
| 39442 | Clyde Brand | Baltimore | 1.81 | 1.00 | 1.44 | 1.00 | 1.50 | ..... | 8.35 | 8.00 | 31.93 | 23.00 |
| 39327 | Fish Mixture | Baltimore | 2.42 | 2.00 | 2.22 | 2.00 | 1.40 | ..... | 9.45 | 8.00 | 40.76 | 34.00 |
| 39443 | Potash Guano | Baltimore | 1.09 | 1.00 | 4.05 | 4.00 | 1.10 | ..... | 8.20 | 8.00 | 33.61 | 32.00 |
| 39328 | Potato Grower | Baltimore | 6 83 | 7.00 | 5.30 | 5.00 | .75 | ..... | 8.45 | 6.00 | 83.52 | 80.00 |
| 39243 | 7% Guano | Baltimore | 5.10 | 7.00 | 3.40 | 3.00 | 1.02 | ..... | 8.03 | 6.00 | 63.46 | 74.00 |
| 39252 | Tobacco Bed Guano 1920 | Baltimore | 9.18 | 10.00 | 2.02 | 2.00 | 1.17 | ..... | 5.73 | 5.00 | 88.57 | 93.50 |
| | **Farmers Fertilizer & Feed Co., Westminster, Md.** | | | | | | | | | | | |
| 26801 | Indian Chief | Westminster | 1.06 | 1.00 | ... | ..... | 1.20 | ..... | 11.02 | 11.00 | 25.49 | 24.50 |
| 26802 | No. 3 Phosphate | Westminster | 1.57 | 1.50 | 3.02 | 2.00 | .95 | 1.00 | 7.90 | 8.00 | 33.85 | 30.40 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26803 | Special Potash Mixture | Westminster | 2.12 | 2.00 | 4.84 | 5.00 | 2.15 | ..... | 8.65 | 8.00 | 45.32 | 43.00 |
| 26804 | XX Phosphate | Westminster | 1.38 | 1.00 | 2.24 | 2.00 | 1.43 | 1.00 | 9.77 | 9.00 | 32.99 | 27.90 |
| | **Farmers & Planters Co., Salisbury, Md.** | | | | | | | | | | | |
| 39379 | Early Truck | Salisbury | 3.63 | 4.00 | 4.32 | 4.00 | 2.00 | ..... | 8.10 | 8.00 | 54.95 | 56.00 |
| 39380 | Early Vegetable | Salisbury | 5.27 | 5.00 | 6.34 | 5.00 | 1.38 | ..... | 8.62 | 8.00 | 74.66 | 67.00 |
| 39381 | Fish Mixture | Salisbury | 2.24 | 2.00 | 2.88 | 2.00 | 1.68 | ..... | 7.87 | 8.00 | 39.04 | 34.00 |
| 26896 | General Crop Grower | Salisbury | 1.18 | 1.00 | 2.52 | 2.00 | 1.00 | ..... | 10.90 | 10.00 | 33.75 | 29.00 |
| 26868 | Peerless (Low Grade) | Salisbury | .68 | .50 | 2.92 | 2.00 | 2.08 | ..... | 9.42 | 8.00 | 29.16 | 22.00 |
| 39384 | Special Fish Mixture | Salisbury | 2.03 | 2.00 | 5.38 | 5.00 | 1.55 | ..... | 8.75 | 8.00 | 46.13 | 43.00 |
| 39385 | Truckers Mixture Revised 1920 | Salisbury | 3.24 | 3.00 | 4.36 | 4.00 | 1.48 | ..... | 7.62 | 8.00 | 51.02 | 48.00 |
| 39386 | Wheat & Grass Special | Salisbury | 1.04 | 1.00 | 6.08 | 5.00 | 1.65 | ..... | 10.05 | 10.00 | 42.30 | 38.00 |
| | **Griffith & Boyd Co., Balto., Md.** | | | | | | | | | | | |
| 39414 | Acid Phosphate 14% | Baltimore | ..... | ..... | ..... | ..... | .58 | ..... | 15.67 | 14.00 | 23.63 | 21.00 |
| 26817 | Acid Phosphate 16% | Baltimore | ..... | ..... | ..... | ..... | .38 | ..... | 18.82 | 16.00 | 28.31 | 24.00 |
| 26891 | Accomac Trucker | Baltimore | 5.80 | 5.00 | 4.52 | 5.00 | .98 | ..... | 5.42 | 6.00 | 68.48 | 64.00 |
| 39348 | Blood, Bone & Potash | Baltimore | 5.89 | 5.00 | 3.72 | 3.00 | 1.05 | ..... | 7.50 | 8.00 | 69.95 | 61.00 |
| 39329 | Farmers Potato Manure | Baltimore | 1.18 | 1.00 | 6.17 | 6.00 | 1.60 | ..... | 8 30 | 8.00 | 41.04 | 38 00 |
| 39415 | Farmers Queen, 1-9-3 | Baltimore | 1.01 | 1.00 | 2.52 | 3.00 | .58 | ..... | 10.77 | 9.00 | 32.03 | 30.50 |
| 39375 | Fish & Bone Mixture (L. Gr.) | Baltimore | 1.62 | 1.75 | ..... | ..... | .60 | ..... | 7.55 | 7.00 | 24.53 | 24.50 |
| 39330 | Fish, Bone & Potash 2% | Baltimore | 1.96 | 1.75 | 2.01 | 2.00 | 1.60 | ..... | 8.02 | 7.00 | 34.38 | 30.50 |
| 39287 | Fish & Potash Guano | Baltimore | 1.76 | 1.75 | 2.84 | 3.00 | 1.55 | ..... | 7.02 | 7.00 | 33.75 | 33.50 |
| 26811 | General Crop Grower | Baltimore | 2.63 | 2.00 | 2.03 | 2.00 | .33 | ..... | 7.22 | 8.00 | 38.09 | 34.00 |
| 39416 | Peerless Fertilizer (L. Gr.) | Baltimore | .55 | .50 | 2.20 | 2.00 | .53 | ..... | 8.82 | 8.00 | 24.44 | 22.00 |
| 39303 | Pure Ground Bone Meal | Baltimore | 4.39 | 4.00 | ..... | ..... | *20.75 | *20.00 | ..... | ..... | 47.57 | 44.00 |
| 39331 | Soft Ground Bone Meal | Baltimore | 2.61 | 3.00 | ..... | ..... | *13.70 | *11.00 | ..... | ..... | 29.10 | 30.60 |
| 26851 | Special Fish Mixture | Baltimore | 1.45 | 1.50 | ..... | ..... | .60 | ..... | 5.85 | 10.00 | 20.62 | 27.00 |
| 26888 | Special Formula 2-10-4 | Baltimore | 2.66 | 2.00 | 3.40 | 4.00 | .60 | ..... | 10.85 | 10.00 | 48.00 | 43.00 |
| 39362 | Special Guano | Baltimore | 2.08 | 2.00 | 5.02 | 5.00 | 2.08 | ..... | 8.72 | 8.00 | 45.61 | 43.00 |
| 39332 | Spring Crop Grower | Baltimore | 1.89 | 2.00 | 4.60 | 4.50 | .95 | ..... | 7.40 | 6.50 | 40.40 | 39.25 |
| 26819 | Stable Manure Substitute | Baltimore | 4.10 | 3.50 | 4.96 | 4.00 | .70 | ..... | 4.90 | 5.00 | 55.31 | 47.50 |
| 39417 | Tobacco & Vegetable Grower | Baltimore | 2 02 | 3.00 | 2.60 | 3.00 | .45 | ..... | 9.10 | 8.00 | 37.79 | 45.00 |
| 39418 | XX Potash Manure | Baltimore | ..... | ..... | 5.34 | 5.00 | 2.15 | ..... | 11.15 | 10.00 | 33.18 | 30.00 |
| | **Griffith & Turner Co., Balto., Md.** | | | | | | | | | | | |
| 26825 | Ammoniated Butchers Bone | Baltimore | 1.50 | 1.25 | 1.88 | 1.50 | 1.60 | ..... | 9.25 | 9.00 | 32.16 | 28.00 |
| | **Hampstead Fertilizer Co., Hampstead, Md.** | | | | | | | | | | | |
| 26805 | 1-8-2 | Hampstead | 1.02 | 1.00 | 2.04 | 2.00 | 2.08 | ..... | 8.02 | 8.00 | 27.14 | 26.00 |

*Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **S. M. Hess & Bro., Inc., Philadelph** | **ia, Pa.** | | | | | | | | | | |
| 26874 | Acid Phosphate 14% | Glendale | ..... | ..... | ..... | ..... | 1.78 | ..... | 15.27 | 14.00 | $23.27 | $21.00 |
| 26852 | Keystone Phosphate | Baltimore | 1.08 | 1.00 | 1.04 | 1.00 | 1.00 | ..... | 9.10 | 8.00 | 25.81 | 23.00 |
| 39262 | Potato Crop Producer | Baltimore | 5.02 | 5.00 | 4.22 | 4.00 | 1.07 | ..... | 9.08 | 8.00 | 66.87 | 64.00 |
| 26886 | Special Compound | Baltimore | 1.13 | 1.00 | 4.08 | 4.00 | 1.07 | ..... | 9.63 | 8.00 | 36.16 | 32.00 |
| 26826 | Special Corn Manure | Baltimore | 1.06 | 1.00 | 2.03 | 2.00 | .33 | ..... | 9.82 | 8.00 | 29.43 | 26.00 |
| 26812 | Standard Super Phosphate | Baltimore | 1.09 | 1.00 | ..... | ..... | .60 | ..... | 11.60 | 10.00 | 26.36 | 23.00 |
| 26853 | Superior Super Phosphate | Baltimore | 1.25 | 2.00 | ..... | ..... | .90 | ..... | 11.02 | 10.00 | 26.89 | 31.00 |
| | **Hubbard Fertilizer Co., Balto., Md.** | | | | | | | | | | | |
| 39426 | Acid Phosphate 14% | Baltimore | ..... | ..... | ..... | ..... | .38 | ..... | 15.87 | 14.00 | 23.89 | 21.00 |
| 39263 | Acid Phosphate 16% | Baltimore | ..... | ..... | ..... | ..... | 1.38 | ..... | 16.17 | 16.00 | 24.54 | 24.00 |
| 26889 | Ammoniated Fertilizer | Baltimore | 3.12 | 3.00 | ..... | ..... | 1.07 | ..... | 10.73 | 10.00 | 41.49 | 39.00 |
| 39363 | Climax Phosphate | Baltimore | 1.14 | 1.00 | 3.52 | 4.00 | 1.55 | ..... | 8.75 | 7.00 | 38.43 | 30.50 |
| 39444 | Columbia Phosphate 1-8-0 (L. Gr.) | Baltimore | 1.30 | 1.00 | ..... | ..... | 1.55 | ..... | 8.70 | 8.00 | 24.07 | 20.00 |
| 39308 | English Compound | Baltimore | 1.35 | 1.00 | 1.50 | 1.00 | 1.33 | ..... | 8.62 | 8.00 | 28.76 | 23.00 |
| 39288 | Excelsior Mixture | Baltimore | 1.96 | 2.00 | ..... | ..... | 1.25 | ..... | 12.02 | 10.00 | 34.21 | 31.00 |
| 39309 | Farmers IXL Fertilizer | Baltimore | 2.51 | 2.00 | 2.23 | 2.00 | 1.40 | ..... | 9.10 | 8.00 | 40.98 | 34.00 |
| 39364 | Fish & Potash Mixture (L. Gr.) | Baltimore | .61 | .50 | 2.42 | 2.00 | 1.50 | ..... | 9.30 | 8.00 | 26.69 | 22.00 |
| 39271 | 5-8-0 Fertilizer | Baltimore | 4.85 | 5.00 | ..... | ..... | 1.25 | ..... | 8.50 | 8.00 | 52.05 | 52.00 |
| 39376 | H. G. Potash Mixture | Baltimore | ..... | ..... | 4.04 | 4.00 | 2.38 | ..... | 10.12 | 10.00 | 27.78 | 27.00 |
| 39310 | Improved Guano | Baltimore | 2.18 | 2.00 | 2.02 | 2.00 | 1.28 | ..... | 10.92 | 10.00 | 40.39 | 37.00 |
| 39311 | Money Maker Fertilizer | Baltimore | 2.39 | 2.00 | 4.45 | 5.00 | 1.00 | ..... | 8.85 | 8.00 | 46.15 | 43.00 |
| 39365 | 1-8-3 Fertilizer | Baltimore | 1.25 | 1.00 | 3.04 | 3.00 | 1.50 | ..... | 7.60 | 8.00 | 31.12 | 29.00 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39365 | 1-8-3 Fertilizer | Baltimore | 1.25 | 1.00 | 3.04 | 3.00 | 1.50 | | 7.60 | 8.00 | 31.12 | 29.00 | | |
| 39366 | Oriental Guano | Baltimore | 1.13 | 1.00 | | | 2.20 | | 11.10 | 10.00 | 26.57 | 23.00 | | |
| 39272 | Royal Seal 5% | Baltimore | 5.07 | 5.00 | 5.16 | 5.00 | 1.50 | | 6.75 | 6.00 | 66.77 | 64.00 | | |
| 39473 | Royal Seal | Pocomoke (W. G. L.) | 6.35 | 7.00 | 4.86 | 5.00 | .38 | | 7.62 | 6.00 | 76.96 | 80.00 | | |
| 39333 | Royal Seal 7% | Baltimore | 6.71 | 7.00 | 5.42 | 5.00 | .75 | | 6.80 | 6.00 | 80.44 | 80.00 | | |
| 39367 | Standard Phosphate | Baltimore | 2.24 | 2.00 | 3.44 | 3.00 | 1.55 | | 8.35 | 8.00 | 41.39 | 37.00 | | |
| 39273 | Yellow Wrapper | Baltimore | 3.33 | 3.00 | 3.04 | 3.00 | 1.55 | | 3.90 | 8.00 | 49.73 | 45.00 | | |
| | **M. P. Hubbard & Co., Inc., Balto., Md.** | | | | | | | | | | | | | |
| 26846 | Acme | Baltimore | 1.11 | 1.00 | 4.88 | 4.00 | .90 | | 8.02 | 8.00 | 35.91 | 32.00 | | |
| 39427 | Celebrated Phosphate | Baltimore | 1.66 | 2.00 | 2.12 | 2.00 | .48 | | 9.32 | 8.00 | 33.81 | 34.00 | | |
| 39312 | Dissolved Phosphate 16% | Baltimore | | | | | .85 | | 16.05 | 16.00 | 24.25 | 24.00 | | |
| 39313 | Everybody's Formula | Baltimore | 3.34 | 3.00 | | | 2.05 | | 9.02 | 9.00 | 41.07 | 37.50 | | |
| 39428 | Excelsior | Baltimore | 1.42 | 1.00 | 1.80 | 2.00 | .78 | | 8.92 | 8.00 | 30.45 | 26.00 | | |
| 39314 | Great Harvest | Baltimore | 2.08 | 2.00 | | | 2.15 | | 10.01 | 10.00 | 32.52 | 31.00 | | |
| 26847 | Havana Special | Baltimore | 2.54 | 3.00 | 1.36 | 1.00 | .35 | | 9.25 | 8.00 | 38.42 | 39.00 | | |
| 39349 | Maryland Special 5-7-5 | Baltimore | 5.12 | 5.00 | 5.50 | 5.00 | .98 | | 7.32 | 7.00 | 68.77 | 65.50 | | |
| 39429 | Old Economy (Low Grade) | Baltimore | .55 | .50 | 2.44 | 2.00 | .98 | | 9.87 | 8.00 | 26.92 | 22.00 | | |
| 39350 | Quick Step Compound | Baltimore | 3.63 | 4.00 | 5.16 | 4.00 | .90 | | 8.15 | 8.00 | 57.11 | 56.00 | | |
| 39315 | Special Formula | Baltimore | 3.34 | 3.00 | 3.43 | 3.00 | 2.38 | | 8.07 | 8.00 | 50.07 | 45.00 | | |
| 39316 | Special Potato & Tomato | Baltimore | 2.01 | 2.00 | 4.30 | 5.00 | 2.35 | | 7.80 | 7.00 | 41.62 | 41.50 | | |
| 26820 | Special 3-7-8 | Baltimore | 3.03 | 3.00 | 7.08 | 8.00 | 1.50 | | 8.40 | 7.00 | 58.68 | 58.50 | | |
| 39393 | 3-7-8 Fertilizer | Baltimore | 2.64 | 3.00 | 8.02 | 8.00 | 2.05 | | 7.65 | 7.00 | 57.48 | 58.50 | | |
| 26881 | Union Jack (Low Grade) | Baltimore | 2.02 | 2.00 | | | .85 | | 9.02 | 8.00 | 30.03 | 28.00 | | |
| | **Lancaster Chem. Co., Lancaster, Pa.** | | | | | | | | | | | | | |
| 26778 | Dewey Brand | Perryville | .87 | 1.00 | 2.32 | 2.00 | 2.00 | 1.00 | 6.70 | 8.00 | 24.77 | 26.40 | | |
| 26779 | Economist (L. Gr.) | Perryville | | | | | 1.65 | 1.00 | 8.45 | 10.00 | 13.01 | 15.20 | | |
| 26780 | General Crop Special | Perryville | 1.06 | 2.00 | | | 2.10 | 1.00 | 10.55 | 12.00 | 25.15 | 34.40 | | |
| 26781 | Phosphoric Acid Special | Perryville | | | | | .43 | 1.00 | 15.72 | 16.00 | 23.67 | 24.20 | | |
| 26782 | Special Potash Manure | Perryville | | | 1.12 | 2.00 | 1.98 | | 7.02 | 10.00 | 14.29 | 21.00 | | |
| 26783 | Success Brand | Perryville | .61 | 1.00 | 2.20 | 4.00 | .90 | 1.00 | 11.65 | 8.00 | 29.32 | 32.40 | | |
| 26784 | Wheat & Grass | Perryville | 1.01 | 1.00 | | | 2.35 | 1.00 | 10.25 | 10.00 | 24.40 | 23.40 | | |
| | **Lister's Agricultural Chemical Works, Newark, N. J.** | | | | | | | | | | | | | |
| 89854 | Acid Phosphate H. G. 16% | Baltimore | | | | | 1.32 | | 16.53 | 16.00 | 25.06 | 24.00 | | |
| 26944 | Big Crop Grower | Baltimore | 2.12 | 2.00 | 3.92 | 4.00 | .85 | | 8.90 | 8.00 | 42.41 | 40.00 | | |
| 39980 | Buyers Choice Acid Phosphate | Baltimore | | | | | 2.30 | | 15.45 | 14.00 | 23.64 | 21.00 | | |
| 39882 | Cel. Gr'd. Bone Tank. Acid | Baltimore | 3.31 | 3.25 | | | 6.25 | 5.00 | 7.95 | 7.00 | 40.91 | 38.50 | | |
| 39870 | Corn & Potato Fertilizer | Baltimore | 2.10 | 2.00 | 2.84 | 3.00 | 2.05 | | 8.25 | 8.00 | 38.52 | 37.00 | | |
| 26738 | Dissolved Animal Bone | Baltimore | 2.52 | 2.50 | | | 1.90 | | 13.05 | 12.00 | 40.50 | 38.00 | | |

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Lister's Agricultural Chemical Wor** | **ks, Newark, N. J.** | | | | | | | | | | |
| 26728 | Eastern Pride Fertilizer | Baltimore | 2.70 | 3.00 | 4.04 | 4.00 | 1.38 | ..... | 8.82 | 8.00 | $47.50 | $48.00 |
| 39822 | "G" Brand 1-8-4 | Baltimore | 1.74 | 1.00 | 3.92 | 4.00 | 1.70 | ..... | 8.25 | 8.00 | 38.74 | 32.00 |
| 26650 | Golden Sheaf | Conowingo | 1.01 | 1.00 | 1.02 | 1.00 | 1.65 | ..... | 8.05 | 8.00 | 23.88 | 23.00 |
| 39871 | Harvest Queen | Baltimore | 1.40 | 1.00 | 3.03 | 3.00 | 1.30 | ..... | 9.50 | 9.00 | 35.06 | 30.50 |
| 26759 | Lime Phosphate (Low Grade) | Hancock | ..... | ..... | ..... | ..... | 2.25 | 1.00 | 14.15 | 13.00 | 21.68 | 19 70 |
| 26951 | Perfect Potato Manure | Baltimore | 3.91 | 4.00 | 3.84 | 4.00 | 1.15 | ..... | 9.05 | 8.00 | 56.84 | 56.00 |
| 26661 | Soluble Crop Grower | Baltimore | ..... | ..... | 3.40 | 3.00 | .38 | ..... | 13.87 | 12.00 | 31.09 | 27.00 |
| 39951 | Special Crop Producer (L. Gr.) | Cambridge | 1.08 | 1.00 | 1.02 | 1.00 | 2.18 | ..... | 7.02 | 7.00 | 23.10 | 21.50 |
| 26660 | Special Tobacco Fertilizer | Baltimore | 2.20 | 2.00 | 3.04 | 3.00 | 1.00 | ..... | 9.30 | 8.00 | 41.07 | 37.00 |
| 26957 | Special Truck Fertilizer | Baltimore | 3.81 | 4.00 | 2.88 | 4.00 | 1.13 | ..... | 8.97 | 8.00 | 53.03 | 56.00 |
| 26703 | Squirrel Brand | Baltimore | 1.01 | 1.00 | 2.04 | 2.00 | 1.20 | ..... | 8.50 | 8.00 | 27.43 | 26.00 |
| 39855 | Stand. Pure Super Phos. of Lime | Baltimore | 3.11 | 3.00 | 2.05 | 2.00 | 1.25 | ..... | 9.75 | 9.00 | 46.16 | 43.50 |
| 39873 | Success Fertilizer | Baltimore | 1.66 | 2.00 | 2.48 | 2.00 | 1.30 | ..... | 9.40 | 8.00 | 35.34 | 34.00 |
| 26939 | Vegetable Fertilizer 5% | Baltimore | 4.06 | 5.00 | 6.28 | 5.00 | .73 | ..... | 8.77 | 7.00 | 64.77 | 65.50 |
| | **Martin Fertilizer Co., Phila., Pa.** | | | | | | | | | | | |
| 39928 | Acid Phosphate 16% | Baltimore | ..... | ..... | ..... | ..... | 1.50 | ..... | 17.50 | 16.00 | 26.55 | 24.00 |
| 26739 | Ammoniated Phosphate (L. Gr.) | Baltimore | 1.09 | 1.00 | ..... | ..... | 2.05 | ..... | 10.40 | 8.00 | 25.14 | 20.00 |
| 26729 | Ammoniated Phosphate (L. Gr.) | Baltimore | 1.01 | 1.00 | 1.26 | 1.00 | 1.18 | ..... | 7.82 | 7.00 | 24.06 | 21.50 |
| 26749 | Ammoniated Phosphate | Baltimore | 2.30 | 2.00 | .... | ..... | 1.85 | ..... | 11.60 | 10.00 | 36.54 | 31.00 |
| 39981 | Bull Head Fertilizer | Baltimore | 3.50 | 3.00 | 2 66 | 3.00 | 2.20 | ..... | 7.20 | 8.00 | 47.66 | 45.00 |
| 26689 | Corn & Cereal Special | Baltimore | 2.02 | 2.00 | 2.32 | 2.00 | 1.65 | ..... | 7.05 | 8.00 | 34.36 | 34.00 |
| 26730 | Crop Producer | Baltimore | 1.26 | 1.25 | ..... | ..... | 1.80 | ..... | 10.80 | 10.00 | 27.00 | 25.00 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26740 | Dissolved Organic Compound... | Baltimore..... | 1.02 | 1.00 | 2.48 | 3.00 | 1.75 | ..... | 10.30 | 9.00 | 31.75 | 30.50 |
| 39883 | Early Truck & Vegetable Grower..... | Baltimore..... | 4.08 | 4.00 | 4.36 | 5.00 | 2.55 | ..... | 9.25 | 8.00 | 60.62 | 59.00 |
| 39893 | 4-8-4 Fertilizer..... | Baltimore..... | 3.67 | 4.00 | 2.46 | 4.00 | 2.35 | ..... | 9.15 | 8.00 | 51.41 | 56.00 |
| 26690 | Giant Grain Grower..... | Baltimore..... | 2.03 | 2.00 | 3.02 | 2.00 | 1.82 | ..... | 8.38 | 10.00 | 38.60 | 37.00 |
| 26961 | 1-8-4 Fertilizer ..... | Baltimore..... | 1.25 | 1.00 | 3.72 | 4.00 | 2.25 | ..... | 9.50 | 8.00 | 36.31 | 32.00 |
| 39982 | Organic Compound..... | Baltimore..... | 1.14 | 1.00 | 1.66 | 3.00 | 4.75 | ..... | 10.25 | 8.00 | 31.38 | 29.00 |
| 26704 | Potash & Soluble Phosphate.... | Baltimore..... | ..... | ..... | 5.16 | 5.00 | .50 | ..... | 12.45 | 12.00 | 34.26 | 33.00 |
| 39983 | Prize Potato..... | Baltimore..... | 1.72 | 2.00 | 3.44 | 10.00 | 3.85 | ..... | 9.75 | 8.00 | 40.25 | 58.00 |
| 26948 | Special Compound..... | Cambridge..... | 1.30 | 2.00 | 5.76 | 5.00 | 2.05 | ..... | 6.90 | 8.00 | 38.85 | 43.00 |
| 26705 | Sure Grower ..... | Baltimore..... | 1.01 | 1.00 | .80 | 1.00 | 1.65 | ..... | 8.85 | 8.00 | 24.42 | 23.00 |
| 26741 | 2-8-3 Fertilizer ..... | Baltimore..... | 1.49 | 2.00 | 3.80 | 3.00 | 1.77 | ..... | 9.23 | 8.00 | 37.88 | 37.00 |
| 26965 | 2-12-4 Fertilizer..... | Baltimore..... | 2.73 | 2.00 | 3.48 | 4.00 | 1.92 | .... | 9.38 | 12.00 | 47.12 | 46.00 |
| | **Maryland Milling & Supply Co.,** | **Sykesville, Md.** | | | | | | | | | | |
| 26651 | Acid Phosphate 14%..... | Sykesville..... | ..... | ..... | ..... | ..... | 2.65 | ..... | 13.05 | 14.00 | 20.11 | 21.00 |
| 26652 | Acid Phosphate High Grade.... | Sykesville..... | ..... | ..... | ..... | ..... | 1.28 | ..... | 15.52 | 16.00 | 23.54 | 24.00 |
| 26653 | Corn, Oats & Grass Mixture.... | Sykesville..... | 1.04 | 1.00 | 1.06 | 1.00 | 1.07 | ..... | 9.88 | 8.00 | 26.75 | 23.00 |
| 26654 | Phosphate & Potash..... | Sykesville..... | ..... | ..... | 2.04 | 2.00 | 2.40 | ..... | 11.25 | 10.00 | 23.48 | 21.00 |
| 26655 | Potato Mixture ..... | Sykesville..... | 1.09 | 1.00 | 2.38 | 4.00 | 2.23 | ..... | 9.37 | 8.00 | 30.41 | 32.00 |
| | **Massey & Kilbourne, Chestertown.** | **Md.** | | | | | | | | | | |
| 39952 | Acid Phosphate 16%..... | Chestertown..... | ..... | ..... | ..... | ..... | .50 | ..... | 18.50 | 16.00 | 27.85 | 24.00 |
| 39953 | Crop Producer..... | Chestertown..... | 1.09 | 1.00 | 3.06 | 3.00 | 1.12 | ..... | 10.28 | 9.00 | 33.77 | 30.50 |
| 26785 | Propagator..... | Chestertown..... | 2.06 | 2.00 | 2.03 | 2.00 | .95 | ..... | 8.60 | 8.00 | 35.85 | 34.00 |
| 39954 | Trustworthy..... | Chestertown..... | 1.06 | 2.00 | ..... | ..... | .85 | ..... | 11.35 | 10.00 | 25.85 | 31.00 |
| | **Medford Fertilizer Works, Medford,** | **Md.** | | | | | | | | | | |
| 26712 | No. 1 Phosphate..... | Medford..... | 1.16 | 1.00 | ..... | ..... | .85 | ..... | 12.25 | 10.00 | 28.00 | 23.00 |
| 26713 | No. 2 Phosphate..... | Medford..... | 1.04 | 1.00 | 2.36 | 1.00 | .80 | ..... | 10.65 | 8.00 | 31.70 | 23.00 |
| | **F. Mehring Fertilizer Works, Inc.,** | **Keymar, Md.** | | | | | | | | | | |
| 26714 | Big 4 Crop Grower..... | Keymar..... | 1.52 | 1.00 | 2.28 | 2.00 | 1.50 | ..... | 8.45 | 9.00 | 32.28 | 27.50 |
| 25715 | Half & Half Mixture..... | Keymar..... | 1.62 | 1.25 | ..... | ..... | 3.60 | ..... | 14.45 | 15.00 | 36.08 | 32.50 |
| | **Miller Fertilizer Co., Baltimore, Md.** | | | | | | | | | | | |
| 26691 | Acid Phosphate 16%..... | Ellicott City..... | ..... | ..... | ..... | ..... | .67 | .50 | 18.43 | 16.00 | 27.78 | 24.10 |
| 26692 | Alkaline Mixture..... | Ellicott City..... | ..... | ..... | 2.24 | 2.00 | 1.32 | .50 | 13.23 | 12.00 | 26.83 | 24.10 |
| 26679 | Clermont..... | Germantown..... | 1.14 | 1.00 | 2.36 | 2.00 | 1.32 | ..... | 10.23 | 10.00 | 32.08 | 29.00 |
| 26716 | Club Brand (L. Gr.)..... | Hampstead ..... | .67 | .50 | 2.02 | 2.00 | 1.00 | .50 | 9.30 | 8.00 | 25.77 | 22.20 |
| 39838 | Harvest Queen..... | Baltimore..... | 1.04 | 1.00 | 3.21 | 3.00 | 1.23 | .50 | 10.07 | 9.00 | 33.55 | 30.70 |
| 39823 | High Grade Potato Fertilizer... | Baltimore..... | 7.01 | 7.00 | 5.68 | 5.00 | 1.30 | .50 | 7.10 | 6.00 | 84.29 | 80.20 |

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Miller Fertilizer Co., Baltimore,** | **Md.** | | | | | | | | | | |
| 26680 | Hustler Phosphate | Germantown | 1.18 | 1.00 | 1.32 | 1.00 | .90 | ..... | 8.90 | 8.00 | $27.11 | $23.00 |
| 39824 | No. 1 Potato & Vegetable Grower | Baltimore. | 4.16 | 4.00 | 4.09 | 4.00 | 1.40 | .50 | 8.60 | 8.00 | 59.01 | 56.20 |
| 26693 | No. 1 Special | Baltimore | 1.91 | 2.00 | ..... | ..... | 1.65 | .50 | 10.30 | 10.00 | 31.39 | 31.20 |
| 26694 | Potato & Vegetable Manure | Ellicott City | 2.01 | 2.00 | 3.08 | 3.00 | .60 | .50 | 10.35 | 9.00 | 41.09 | 38.70 |
| 39884 | Standard Phosphate | Baltimore | 3.05 | 3.00 | 3.03 | 3.00 | .80 | .50 | 8.70 | 8.00 | 46.86 | 45.20 |
| 26940 | Unexcelled Fertilizer | Baltimore | 2.08 | 2.00 | 2.03 | 2.00 | 1.88 | .50 | 10.32 | 10.00 | 38.96 | 37.20 |
| | **J. B. Nichols and Son, Baltimore,** | **Md.** | | | | | | | | | | |
| 39885 | Farmers Friend Fertilizer | Baltimore | 3.91 | 4.00 | 1.54 | 1.00 | 1.90 | ..... | 9.15 | 7.00 | 50.39 | 45.50 |
| | **Nitrate Agencies Co., New York,** | **N. Y.** | | | | | | | | | | |
| 26731 | Acid Phasphate High Grade | Baltimore | ..... | ..... | ..... | ..... | 1.13 | 1.00 | 16.92 | 16.00 | 25.61 | 24.20 |
| | **G. Ober and Sons Co., Baltimore,** | **Md.** | | | | | | | | | | |
| 26662 | Dissolved Phosphate 14% | Baltimore | ..... | ..... | ..... | ..... | .73 | ..... | 15.87 | 14.00 | 23.96 | 21.00 |
| 39985 | Acid Phosphate H. G. 16% | Baltimore | ..... | ..... | ..... | ..... | .32 | ..... | 19.38 | 16.00 | 29.13 | 24.00 |
| 39886 | Acco 5% Potash Potato Guano | Baltimore | 5.03 | 5.00 | 5.40 | 5.00 | .85 | ..... | 8.35 | 7.00 | 69.31 | 65.50 |
| 26959 | Avondale Amm'd. Dis. Bone | Baltimore | 2.66 | 2.00 | 1.52 | 1.00 | 1.53 | ..... | 10.02 | 8.00 | 41.48 | 31.00 |
| 26663 | Electro Compound | Baltimore | 1.21 | 1.00 | ..... | ..... | .55 | ..... | 11.80 | 10.00 | 27.60 | 23.00 |
| 39845 | Farmers Mixture | Baltimore | 1.37 | 1.00 | 2.42 | 2.00 | 1.00 | ..... | 12.05 | 9.00 | 36.70 | 27.50 |
| 26674 | Farmers Standard Amm'd. Phos. | Baltimore | 2.12 | 2.00 | 2.32 | 2.00 | 1.50 | ..... | 10.02 | 9.00 | 39.55 | 35.50 |
| 39846 | Fish & Blood Mixture | Baltimore | 2.92 | 3.00 | ..... | ..... | 1.55 | ..... | 11.05 | 9.00 | 40.56 | 37.50 |
| 39874 | Golden Seal Tobacco Guano | Baltimore | 3.04 | 3.00 | 1.20 | 1.00 | .60 | ..... | 9.75 | 8.00 | 42.79 | 39.00 |
| 39987 | Independ't. Amm'd Super-Phos. | Baltimore | 1.18 | 1.00 | 1.38 | 1.00 | 1.12 | ..... | 9.68 | 8.00 | 28.55 | 23.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39988 | Liberty Fish Guano | Baltimore | 1.67 | 1.25 | ..... | ..... | .67 | ..... | 14.38 | 13 00 | 35.20 | 29.50 |
| 26949 | Royal Fish & Potash Compound. | Baltimore | 1.86 | 2.00 | 1.48 | 1.00 | .70 | ..... | 9.95 | 9.00 | 34.53 | 32.50 |
| 26664 | Sea Bird Guano | Baltimore | 1.89 | 2.00 | 4.05 | 4.00 | 1.45 | ..... | 12.01 | 10.00 | 45.87 | 43.00 |
| 39830 | Sol. Amm'd. Super-Phos of Lime | Baltimore | 2.29 | 2.00 | 2.02 | 2.00 | 2.08 | ..... | 8.17 | 8.00 | 37.47 | 34.00 |
| 39847 | Special Plant Food Fertilizer | Baltimore | 2.03 | 2.00 | 4.80 | 5.00 | 1.55 | ..... | 10.85 | 9.00 | 47.54 | 44.50 |
| 39894 | Special Tobacco Fertilizer 10% | Baltimore | 8.62 | 10.00 | ..... | ..... | 1.20 | ..... | 7.50 | 4.00 | 80.69 | 86.00 |
| 39848 | Stag Guano | Baltimore | 1.37 | 1.00 | 3.76 | 4.00 | 1.45 | ..... | 9.80 | 9.00 | 37.52 | 33.50 |
| 39839 | Standard Potash Compound | Baltimore | ..... | ..... | 3.74 | 4.00 | 1.78 | ..... | 11.62 | 12.00 | 29 01 | 30.00 |
| 39887 | Stand. Southern Veg. Fert | Baltimore | 6.84 | 7.00 | 5.04 | 5.00 | .85 | ..... | 7.65 | 6.00 | 81.66 | 80.00 |
| 26717 | Sunbeam Guano | Maple Grove | 1.91 | 2.00 | ..... | ..... | 1.20 | ..... | 11.85 | 10.00 | 33.54 | 31.00 |
| | **Oyler & Sprangler, Fert. Wks., Get** | **tysburg, Pa.** | | | | | | | | | | |
| 26718 | Crop Grower | Emmitsburg | 1.01 | 1.00 | 2.84 | 3.00 | .88 | ..... | 10.02 | 9.00 | 31.98 | 30.50 |
| 26719 | Special | Emmitsburg | 2.04 | 2.00 | ..... | ..... | 1.63 | ..... | 11.22 | 11.00 | 33.80 | 32.50 |
| 26720 | Super Phosphate (Low Grade) | Emmltsburg | 1.08 | 1.00 | ..... | ..... | 1.23 | ..... | 9.47 | 9.00 | 23.34 | 21.50 |
| | **Patapsco Guano Co., Baltimore, Md.** | | | | | | | | | | | |
| 26760 | Acid Phosphate High Grade | Cumberland | ..... | ..... | ..... | ..... | 2.20 | ..... | 18.55 | 16.00 | 28.27 | 24.00 |
| 39888 | Baltimore Soluble Phosphate | Baltimore | ..... | ..... | 3.40 | 3.00 | 1.00 | ..... | 12.30 | 12.00 | 28.85 | 27.00 |
| 26665 | Big Chief Brand with Potash | Baltimore | 1.14 | 1.00 | 2.60 | 3.00 | 1.03 | ..... | 10.67 | 9.00 | 33.34 | 30.50 |
| 26765 | Blood, Bone & Potash Revised | Baltimore | 1.06 | 1.00 | .92 | 1.00 | 1.00 | ..... | 9.30 | 8.00 | 25.59 | 23.00 |
| 39849 | Chippewa Guano | Baltimore | 2.93 | 3.00 | 2.82 | 3.00 | 1.30 | ..... | 9.75 | 8.00 | 47.05 | 45.00 |
| 26766 | Coon Brand Guano | Baltimore | 1.02 | 1.00 | 1.08 | 1.00 | 1.25 | ..... | 10.75 | 9.00 | 28.03 | 24.50 |
| 26750 | Dissolved Animal Bone | Baltimore | 2.52 | 2.50 | .. | ..... | 2.00 | ..... | 13.40 | 12.00 | 41.06 | 38.00 |
| 39864 | Money Maker | Baltimore | 1.18 | 1.00 | 1.84 | 2.00 | 1.32 | ..... | 9.68 | 8.00 | 30.01 | 26 00 |
| 39852 | Plant Bed Fertilizer | Baltimore | 9.17 | 10.00 | 2.06 | 2.00 | 1.00 | ..... | 5.85 | 5.00 | 88.72 | 93 50 |
| 26771 | Planters Delight | Baltimore | 1.77 | 2.00 | 2.12 | 2.00 | .90 | ..... | 9.40 | 8.00 | 34.98 | 34 00 |
| 26761 | Phosphate & Potash (L. Gr.) | Cumberland | ..... | ..... | 2.64 | 3.00 | .45 | ..... | 7.45 | 6.00 | 19.19 | 18.00 |
| 39989 | Potato Manure with Potash | Baltimore | 3.91 | 4.00 | 3.22 | 3.00 | 1.20 | ..... | 9.35 | 8.00 | 55.45 | 53.00 |
| 39825 | Truckers Delight | Baltimore | 3.55 | 3.00 | .. | ..... | 1.78 | ..... | 10.62 | 10.00 | 45.04 | 39 00 |
| 26706 | Vegetable & Corn Fertilizer | Baltimore | 1.77 | 2.00 | 3.68 | 4.00 | 1.55 | ..... | 9.01 | 8.00 | 39.34 | 40.00 |
| 39840 | Vegetator | Baltimore | 1.08 | 1.00 | 2.02 | 2.00 | 1.40 | ..... | 9.30 | 9.00 | 29.21 | 27.50 |
| | **Peerless Fertilizer Co., Chesterto** | **wn, Md.** | | | | | | | | | | |
| 39907 | Fish Mixture (L. Gr.) | Baltimore | 2.12 | 2.00 | ..... | ..... | 1.95 | ..... | 8.75 | 8.00 | 30.87 | 28 00 |
| 26937 | Old Reliable Fertz. (L. Gr.) | Baltimore | 1.09 | 1.00 | ..... | ..... | .98 | ..... | 10.07 | 8.00 | 24.22 | 20.00 |
| 26941 | Our Peerless Fertilizer | Baltimore | 2.01 | 2.00 | 3.08 | 3.00 | .85 | ..... | 9.65 | 8.00 | 40.14 | 37.00 |
| 39474 | Special Mixture 5-8-5 | Princess Anne (C. Z. K.) | 4.74 | 5.00 | 5.24 | 5.00 | .70 | ..... | 9.10 | 8.00 | 67.57 | 64.60 |
| | **Piedmont-Mt. Airy Guano Co., Balti** | **more, Md.** | | | | | | | | | | |
| 26742 | Levering's Excelsior | Baltimore | 1.19 | 1.00 | 1.48 | 1.00 | .72 | ..... | 9.58 | 8.00 | 28.62 | 23.00 |

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Piedmont-Mt. Airy Guano Co., Balti** | **more, Md.** | | | | | | | | | | |
| 26707 | Levering's Harvest Queen..... | Baltimore..... | 1.33 | 1.00 | 2.56 | 2.00 | 1.10 | ..... | 8.70 | 8.00 | $31.81 | $26.00 |
| 39909 | Levering's Standard 2-8-3..... | Baltimore..... | 2.78 | 2.00 | 2.68 | 3.00 | 2.03 | ..... | 8.82 | 8.00 | 44.32 | 37.00 |
| 39856 | Piedmont Acid Phosphate 14%.. | Baltimore..... | ..... | ..... | ..... | ... | .85 | ..... | 13.55 | 14.00 | 20.50 | 21.00 |
| 39857 | Piedmont Acid Phosphate 16%.. | Baltimore..... | ..... | ..... | ..... | ..... | 1.00 | ..... | 15.50 | 16.00 | 23.45 | 24.00 |
| 39990 | Pied. Acidulated Phos. & Potash | Baltimore. ..... | ..... | ..... | 2.20 | 2.00 | 2.90 | ..... | 10.15 | 10.00 | 22.41 | 21.00 |
| 39929 | Piedmont Bone Meal..... | Baltimore..... | 4.61 | 4.00 | ..... | ..... | *22.55 | *21.00 | .. | ..... | 50.41 | 44.60 |
| 39896 | Pied. Early Vegetable Manure. | Baltimore..... | 5.48 | 5.00 | 2.66 | 3.00 | 1.85 | ..... | 8.25 | 8.00 | 64.94 | 61.00 |
| 39910 | Piedmont Fish Guano..... | Baltimore ..... | 2.30 | 2.00 | ..... | ..... | 1.98 | ..... | 10.37 | 10.00 | 34.75 | 31.00 |
| 39911 | Piedmont Fish Mixture. ..... | Baltimore..... | 1.84 | 2.00 | 2.32 | 2.00 | 1.33 | ..... | 9.12 | 10.00 | 35.89 | 37.00 |
| 39897 | Piedmont 5-8-5 Fertilizer..... | Baltimore ..... .. | 5.68 | 5.00 | 5.14 | 5.00 | 1.55 | ... | 8.45 | 8.00 | 74.16 | 67.00 |
| 26955 | Piedmont 5-8-3 Fertilizer..... | Baltimore..... | 2.83 | 5.00 | 2.24 | 3.00 | 1.90 | ..... | 8.75 | 8.00 | 43.25 | 61.00 |
| 39898 | Piedmont 5-7-5 Fertilizer..... | Baltimore..... ... | 4.88 | 5.00 | 5.34 | 5.00 | 1.60 | ..... | 8.25 | 7.00 | 68.08 | 65.50 |
| 39899 | Piedmont 4-8-5 Fertilizer..... | Baltimore..... | 4.47 | 4.00 | 5.20 | 5.00 | 2.00 | ..... | 8.05 | 8.00 | 64.24 | 59.00 |
| 39913 | Piedmont 4-8-3 Fertilizer..... | Baltimore.. .. .... | 3.81 | 4.00 | 3.20 | 3.00 | 2.05 | ..... | 8.30 | 8.00 | 53.35 | 53 00 |
| 39862 | Piedmont Gold Rod. ..... | Baltimore..... | 6.76 | 7.00 | 5.20 | 5.00 | 1.40 | ..... | 6.95 | 6.00 | 80.67 | 80.00 |
| 39875 | Piedmont Guano for Potatoes .. | Baltimore..... | 2.66 | 2.50 | 3.16 | 3.00 | 1.80 | ..... | 8.75 | 8.00 | 44.61 | 41.00 |
| 26743 | Piedmont H. G. Amm'd Bone & Potash.... | Baltimore..... | 2.49 | 3.00 | 2.40 | 3.00 | 1.00 | ..... | 9.02 | 8.00 | 41.05 | 45.00 |
| 39914 | Pied. Insula Fish Guano (L. G.) | Baltimore..... | .97 | .50 | 3.46 | 2.00 | .55 | ..... | 7.95 | 7.00 | 30.29 | 20.50 |
| 26954 | Piedmont Perfection Guano..... | Baltimore..... | 2.08 | 2.00 | 5.12 | 5.00 | 1.00 | ..... | 8.40 | 8.00 | 45.00 | 43.00 |
| 39865 | Piedmont Plow Brand Fertilizer | Baltimore..... | 2.15 | 2.00 | 2.24 | 2.00 | 2.05 | .... | 8.30 | 8.00 | 37 19 | 34.00 |
| 26666 | Piedmont Special Crop Grower.. | Baltimore..... | 1.03 | 1.00 | ..... | ..... | 1.43 | ..... | 10.27 | 10.00 | 24.22 | 23.00 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39916 | Pied. Special Fertilizer | Baltimore | 4.47 | 4.00 | ..... | ..... | 2.28 | ..... | 8.22 | 8.00 | $49.00 | $44.00 |
| 39841 | Pied. 7-6-3 Fertilizer | Baltimore | 6.55 | 7.00 | 4.44 | 3.00 | 1.03 | ..... | 7.37 | 6.00 | 77.19 | 74.00 |
| 26744 | Pied. 3-8-5 Fertilizer | Baltimore | 3.70 | 3.00 | 3.84 | 5.00 | .77 | ..... | 9.28 | 8.00 | 55 35 | 51.00 |
| 39866 | Pied. Utility Fertilizer | Baltimore | 2.13 | 2.00 | ..... | ..... | 1.57 | ..... | 10.28 | 10.00 | 33.09 | 31.00 |
| | **Pollock Fertilizer Co., Baltimore, Md.** | | | | | | | | | | | |
| 39826 | Accomac Trucker | Baltimore | 5.03 | 5.00 | 5.16 | 5.00 | .85 | ..... | 8.35 | 7.00 | 68.59 | 65.50 |
| 26696 | Ammoniated Fertilizer "AA" | Baltimore | 2.06 | 2.00 | ..... | ..... | 2.15 | ..... | 10.55 | 10.00 | 33.17 | 31.00 |
| 26752 | Ammoniated Fertilizer "AAA" | Baltimore | 3.11 | 3.00 | ..... | ..... | 1.55 | ..... | 10.85 | 10.00 | 41.78 | 39.00 |
| 26952 | Bull's Eye Guano | Baltimore | 2.08 | 2.00 | 2.04 | 2.00 | 1.30 | ..... | 8.60 | 8.00 | 36.18 | 34.00 |
| 39940 | Corn & Oats Special (L Gr.) | Baltimore | 1.13 | 1.00 | 1.04 | 1.00 | 1.47 | ..... | 7.63 | 7.00 | 24.20 | 21.50 |
| 26697 | Crop Invigorator | Baltimore | 1.18 | 1.00 | 4.02 | 4.00 | .95 | ..... | 9.40 | 8.00 | 35.98 | 32.00 |
| 39827 | Special Potato & Tobacco | Baltimore | 2.18 | 2.00 | 3.76 | 4.00 | 1 83 | ..... | 8.67 | 8.00 | 42.46 | 40.00 |
| | **Ramsburg Fertilizer Co., Frederick, Md.** | | | | | | | | | | | |
| 26681 | Ammoniated Bone Phosphate | Buck Lodge | 1.16 | 1.00 | ..... | ..... | 2.32 | ..... | 12.88 | 11.00 | 29.53 | 24.50 |
| 26682 | Ammoniated Bone Phosphate | Frederick | 1.11 | 1.00 | 2.08 | 2.00 | 1.52 | ..... | 12.28 | 9.00 | 34.15 | 27.50 |
| 26683 | Corn & Potato Fertilizer | Frederick | 1.40 | 1.00 | 1.38 | 1.00 | 2.10 | ..... | 10.30 | 8.00 | 31.63 | 23.00 |
| 26684 | Excelsior Plant Food | Frederick | 1.50 | 2.00 | 1.88 | 2.00 | 3.50 | ..... | 8.95 | 8.00 | 32.47 | 34 00 |
| 26685 | Old Virginia Compound | Buck Lodge | 1.31 | 1.00 | 2.32 | 4.00 | 1.40 | ..... | 12.10 | 8.00 | 36.15 | 32.00 |
| 26686 | Queen (Low Grade) | Frederick | .52 | .50 | 1.14 | 1.00 | 2.00 | ..... | 12.40 | 8.00 | 26.98 | 19.00 |
| 26687 | Rock, Salt & Plaster (L. Gr.) | Buck Lodge | ..... | ..... | ..... | ..... | 2.35 | ..... | 6.45 | 5.50 | 10.15 | 8.25 |
| | **Rasin-Monumental Co., Balto., Md.** | | | | | | | | | | | |
| 26776 | Acid Phosphate High Grade | Baltimore | ..... | ..... | ..... | ..... | 1.75 | ..... | 17.25 | 16.00 | 26.23 | 24.00 |
| 26675 | Best Crop Formula | Baltimore | 1.88 | 2.00 | 5.24 | 6.00 | 1.68 | 1.00 | 10.47 | 10.00 | 47.14 | 49.40 |
| 39955 | Best Potato Formula | Cambridge | 4.10 | 4.00 | 7.77 | 6.00 | .95 | 1.00 | 9.95 | 8.00 | 71.42 | 62.40 |
| 26676 | Capital Crop Compound | Baltimore | 1.06 | 1.00 | 3.05 | 3.00 | 1.45 | 1.00 | 10.95 | 9.00 | 34.64 | 30.90 |
| 39828 | Eastern Shore Potato Special | Baltimore | 6.91 | 7.00 | 5.67 | 5.00 | .55 | 1.00 | 6.75 | 6.00 | 82.64 | 80.40 |
| 39842 | Fish, Bone & Potash | Baltimore | 2 30 | 2.00 | 3.44 | 3.00 | 3.00 | 1.00 | 8.20 | 8.00 | 42.22 | 37.40 |
| 26969 | Royal Fish Bone & Potash | | 2.15 | 2.00 | 3.80 | 3.00 | 2.19 | 1.00 | 8.81 | 8.00 | 42.70 | 37.40 |
| 26656 | Special Fish & Bone Guano | Laurel | 1.77 | 2.00 | ..... | ..... | 3.07 | 1.00 | 12.63 | 11.00 | 34.34 | 32.90 |
| 26708 | Special Fish Mixture | Baltimore | 1.50 | 1.00 | ..... | ..... | 2 24 | 1.00 | 12.01 | 10.00 | 30.92 | 23.40 |
| 26732 | Special Phosphate & Potash | Baltimore | ..... | ..... | 5.44 | 5.00 | 1.40 | ..... | 11.65 | 10.00 | 34.08 | 30.00 |
| 26767 | United Grain Grower | Baltimore | 1.25 | 1.00 | 2.32 | 2.00 | 1.25 | 1 00 | 9.75 | 8.00 | 32.09 | 26.40 |
| 39957 | Universal Crop Manure | Cambridge | 1.72 | 2.00 | 5.95 | 5 00 | 2.75 | 1.00 | 9.60 | 8.00 | 44.41 | 43.40 |
| 26657 | Wm. Penn. Crop Grower | Laurel | 1.19 | 1.00 | 1.04 | 1.00 | 3.33 | 1.00 | 9.42 | 8.00 | 28.10 | 23.40 |
| | **Reindollar Co., Taneytown, Md.** | | | | | | | | | | | |
| 26721 | Acid Phosphate | Taneytown | ..... | ..... | ..... | ..... | .78 | ..... | 17.77 | 16.00 | 26.82 | 24.00 |
| 26722 | Ammoniated Phosphate | Taneytown | 1.88 | 2.00 | ..... | ..... | .29 | ..... | 14.96 | 12.00 | 37.60 | 34.00 |

*Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Reindollar Co., Taneytown, Md.** | | | | | | | | | | | |
| 26723 | Rock & Potash | Taneytown | ..... | ..... | 2.08 | 2.00 | .08 | ..... | 14.42 | 12.00 | $27.89 | $24.00 |
| | **F. S. Royster Guano Co., Baltimore, Md.** | | | | | | | | | | | |
| 26698 | Acid Phosphate 14% | Ellicott City | ..... | ..... | ..... | ..... | 2.00 | .50 | 14.85 | 14.00 | 22.68 | 21.10 |
| 39843 | Acid Phosphate 16% | Baltimore | ..... | ..... | ..... | ..... | 1.03 | ..... | 17.47 | 16.00 | 26.42 | 24.00 |
| 39917 | Arrow 7% Potato Grower | Baltimore | 7.03 | 7.00 | 3.94 | 5.00 | .85 | ..... | 6.05 | 6.00 | 77.48 | 80.00 |
| 39918 | Bully Guano | Baltimore | 2.20 | 2.00 | 3.20 | 5.00 | 1.05 | ..... | 9.05 | 8.00 | 41.20 | 43.00 |
| 26953 | Cuckoo Guano | Baltimore | 1.02 | 1.00 | 1.20 | 1.00 | 1.53 | ..... | 8.02 | 8.00 | 24.40 | 23.00 |
| 26667 | Dreadnaught Guano | Baltimore | 2.68 | 2.00 | 1.80 | 2.00 | 2.63 | ..... | 8.37 | 8.00 | 40.45 | 34.00 |
| 39991 | Economy Guano 1-8-2 | Baltimore | 1.35 | 1.00 | 2.44 | 2.00 | 1.45 | ..... | 9.40 | 8.00 | 32.80 | 26.00 |
| 26943 | Everwin Potato Guano | Baltimore | 6.23 | 7.00 | 3.88 | 3.00 | .75 | ..... | 6.02 | 6.00 | 70.81 | 74.00 |
| 26668 | Fish, Flesh & Fowl | Baltimore | 2.02 | 2.00 | 2.90 | 3.00 | 1.05 | ..... | 9.25 | 8.00 | 39.16 | 37.00 |
| 26958 | Fish & Potash | Baltimore | 2.05 | 2.00 | 1.08 | 1.00 | 1.80 | ..... | 8.30 | 8.00 | 32.81 | 31.00 |
| 26699 | Honor Brand | Ellicott City | 2.13 | 2.00 | ..... | ..... | 2.67 | ..... | 9.83 | 10.00 | 32.86 | 31.00 |
| 39919 | Phosphate & Potash 12-5 | Baltimore | ..... | ..... | 5.40 | 5.00 | 1.10 | ..... | 12.25 | 12.00 | 34.80 | 33.00 |
| 26967 | Prime Fish Brand (L. Gr.) | Baltimore | 2.02 | 2.00 | ..... | ..... | .90 | ..... | 7.75 | 8.00 | 28.15 | 28.00 |
| 39993 | Ripper Potato Guano | Baltimore | 4.97 | 5.00 | 3.56 | 5.00 | 3.45 | ..... | 7.90 | 7.00 | 63.67 | 65.50 |
| 26701 | Royal Blue Brand | Ellicott City | 1.04 | 1.00 | ..... | ..... | 1.50 | ..... | 10.30 | 10.00 | 24 37 | 23.00 |
| 39994 | Scout Guano 2-8-7 | Baltimore | 2.02 | 2.00 | 6.84 | 7.00 | 1.32 | ..... | 9.43 | 8.00 | 51.36 | 49.00 |
| 39995 | Trucker 7-8-0 | Baltimore | 6.38 | 7.00 | ..... | ..... | 5.17 | ..... | 9.58 | 8.00 | 67.48 | 68.00 |
| 26670 | Vim Guano | Baltimore | 2.12 | 2.00 | 2.20 | 2.00 | 1.60 | ..... | 12.75 | 12.00 | 43.33 | 40.00 |
| 39920 | Wonder Guano | Baltimore | 1.18 | 1.00 | 3.12 | 3.00 | 1.38 | ..... | 8.01 | 8.00 | 31.37 | 29.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39920 | Wonder Guano | Baltimore | | | | | | | | | | |
| | **Scott Fertilizer Co., Elkton, Md.** | | | | | | | | | | | |
| 26786 | Pennsylvania Potato Grower | Elkton | 1.03 | 1.00 | 2.05 | 2.00 | 1.58 | | 8.77 | 8.00 | 28.18 | 26.00 |
| 26787 | Potato Grower | Elkton | 1.95 | 2.00 | 4.12 | 4.00 | 1.83 | | 10.82 | 10.00 | 44.92 | 43.00 |
| 26788 | Pure Ground Raw Bone | Elkton | 4.76 | 4.50 | | | *23.20 | *21.00 | | | 52.00 | 48.60 |
| 26789 | Soluble Phosphate & Potash 12-2 | Elkton | | | 2.12 | 2.00 | 1.65 | | 12.15 | 12.00 | 24.92 | 24.00 |
| 26791 | Special Grain Grower | Elkton | 1.09 | 1.00 | 1.12 | 1.00 | 1.40 | | 9.40 | 8.00 | 26.74 | 23.00 |
| 26790 | Sure Crop Grower | Elkton | 3.04 | 3.00 | 2.72 | 3.00 | 1.30 | | 9.45 | 8.00 | 47.18 | 45.00 |
| 26792 | Sure Growth Compound | Elkton | 3.53 | 4.00 | 3.64 | 4.00 | 1.05 | | 9.70 | 8.00 | 54.13 | 56.00 |
| 26793 | Sure Growth Super Phosphate | Elkton | 1.91 | 2.00 | 2.12 | 2.00 | 1.3[illegible] | | 8.4[illegible] | 8.00 | 34.76 | 34.00 |
| 26794 | Tip Top Soluble Phosphate | Elkton | | | | | 1.25 | | 17.65 | 16.00 | 26.73 | 24.00 |
| 26795 | Victory Brand | Elkton | 1.77 | 2.00 | 2.76 | 3.00 | 1.23 | | 10.57 | 8.00 | 38.79 | 37.00 |
| 26796 | Wheat & Grass (L. Gr.) | Elkton | .73 | .50 | 2.52 | 2.00 | 1.18 | | 9.07 | 8.00 | 27.48 | 22.00 |
| | **Standard Guano Co., Baltimore, Md.** | | | | | | | | | | | |
| 26946 | Accomac Prize Winner | Baltimore | 5.09 | 5.00 | 5.88 | 5.00 | 1.38 | | 7.27 | 7.00 | 69.82 | 65.50 |
| 39468 | Acid Phosphate | Harmans (G.W.N.) | | | | | 1.00 | | 18.10 | 16.00 | 27.35 | 24.00 |
| 39469 | Dried Blood | Harmans (G.W.N.) | 10.23 | 12.00 | | | | | | | | |
| 39471 | Nitrate of Soda | Harmans (G.W.N.) | 18.36 | 19.00 | | | | | | | | |
| 26772 | Quick Crop Grower | Baltimore | 1.62 | 2.00 | 2.52 | 2.00 | 1.70 | | 8.35 | 8.00 | 33.73 | 34.00 |
| 39470 | Tankage | Harmans (G.W.N.) | 8.64 | 8.00 | | | *10.35 | *9.00 | | | 75.33 | 69.40 |
| 26773 | Tobacco King | Baltimore | 2.63 | 3.00 | 3.30 | 3.00 | 2.25 | | 7.45 | 8.00 | 43.26 | 45.00 |
| 26768 | 2-8-2 Fertilizer | Baltimore | 2.02 | 2.00 | 2.16 | 2.00 | 2.50 | | 8.25 | 8.00 | 36.02 | 34.00 |
| | **W. H. Streett & Co., Fallston, Md.** | | | | | | | | | | | |
| 26658 | Acid Phosphate | Fallston | | | | | 1.07 | .50 | 18.38 | 16.00 | 27.78 | 24.10 |
| 26659 | Ammoniated Dissolved Bone | Fallston | 1.47 | 1.50 | 1.28 | 1.00 | 1.15 | .50 | 11.20 | 9.00 | 32.86 | 28.70 |
| 39935 | High Grade Bone Phosphate | Baltimore | 1.84 | 2.00 | 4.12 | 4.00 | .70 | .50 | 11.70 | 10.00 | 44.91 | 43.20 |
| | **Superior Guano Co., Baltimore, Md.** | | | | | | | | | | | |
| 26745 | Acid Phosphate 16% | Baltimore | | | | | .25 | | 18.15 | 16.00 | 27.28 | 24.00 |
| 26968 | Ammoniated Phos. & Potash | Baltimore | .77 | 1.00 | 1.50 | 2.00 | 2.35 | | 10.75 | 8.00 | 27.73 | 26.00 |
| 26677 | Big Crop Grower | Baltimore | 1.19 | 2.00 | 3.02 | 2.00 | 1.63 | | 10.82 | 8.00 | 35.46 | 34.00 |
| 39878 | Buyers Mixture | Baltimore | 7.70 | 7.00 | 5.36 | 5.00 | 1.05 | | 5.55 | 6.00 | 86.43 | 80.00 |
| 39831 | Buyers Mixture | Baltimore | | | 5 01 | 5.00 | .35 | | 11.90 | 10.00 | 32.95 | 30.00 |
| 39941 | Buyers Mixture | Baltimore | | | 4.48 | 5.00 | 1.25 | | 13 55 | 12.00 | 34.02 | 33.00 |
| 39931 | Caroline Special | Baltimore | 1.13 | 1.00 | 4.04 | 3.00 | .83 | | 7.87 | 9.00 | 33.30 | 30.50 |
| 399[illegible]2 | Corn & Tomato Fertilizer (L. Gr.) | Baltimore | .60 | .50 | 1.50 | 1.00 | 1.83 | | 10.37 | 8.00 | 25.59 | 19.00 |
| 26746 | Dissolved Bone | Baltimore | 1.16 | 2.00 | | | 1.60 | | 13.35 | 10.00 | 29.95 | 31.00 |
| 39921 | Fish Mixture | Baltimore | 2.30 | 2.00 | | | 1.88 | | 10.97 | 10.00 | 35.61 | 31.00 |
| 26960 | Fruit Special | Baltimore | 2.25 | 2.00 | 4.74 | 5.00 | 2.83 | | 9.02 | 8.00 | 46.88 | 43.00 |

*Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Superior Guano Co., Baltimore, Md.** | | | | | | | | | | | |
| 39997 | Half & Half (L. Gr.) | Baltimore | ..... | ..... | 1.08 | 1.25 | 4.00 | ..... | 7.45 | 8.00 | $15.22 | 15.75 |
| 26950 | Potato Special | Baltimore | 5.55 | 5.00 | 3.04 | 3.00 | 2.10 | ..... | 8.85 | 7.00 | 67.64 | 59.50 |
| 39832 | Royal Crop Grower | Baltimore | 1.62 | 1.00 | 4.02 | 4.00 | .50 | ..... | 11.60 | 8.00 | 42.62 | 32.00 |
| 39868 | Special Corn & Grass (L. Gr.) | Baltimore | ..... | ..... | 1.44 | 1.25 | 1.52 | ..... | 10.98 | 8.00 | 21.09 | 15.75 |
| | **Swift & Co., Baltimore, Md.** | | | | | | | | | | | |
| 26769 | Garden City Phosphate | Baltimore | ..... | ..... | ..... | ..... | 1.00 | ..... | 14.85 | 14.00 | 22.48 | 21.00 |
| 39942 | Acid Phosphate 16% | Baltimore | ..... | ..... | ..... | ..... | 1.10 | ..... | 17.70 | 16.00 | 26.77 | 24.00 |
| 39889 | Early Potato Grower | Baltimore | 4.42 | 5.00 | 4.56 | 5.00 | .30 | ..... | 8.25 | 8.00 | 61.54 | 67.00 |
| 26748 | Farmers Favorite ¼-10-1 (L Gr.) | Baltimore | .85 | .25 | 1.16 | 1.00 | .32 | ..... | 10.18 | 10.00 | 25.68 | 20.00 |
| 39834 | Grain Fertilizer 1-8-2 | Baltimore | 1.60 | 1.00 | 1.96 | 2.00 | .35 | ..... | 9.05 | 8.00 | 32.40 | 26.00 |
| 39858 | High Grade Special No. 1 | Baltimore | 3.11 | 3.00 | 2.68 | 3.00 | 1.07 | ..... | 11.33 | 10.00 | 50.35 | 48.00 |
| 39859 | High Grade Special No. 2 | Baltimore | 3.05 | 3.00 | 3.86 | 3.00 | .85 | ..... | 11.35 | 12.00 | 53.35 | 51.00 |
| 39943 | High Grade Trucker 7-6-3 | Baltimore | 6.74 | 7.00 | 3.80 | 3.00 | .18 | ..... | 6.52 | 6.00 | 75.17 | 74.00 |
| 39944 | Hummer 7-6-5 | Baltimore | 5.77 | 7.00 | 5.80 | 5.00 | .15 | ..... | 6.05 | 6.00 | 72.70 | 80.00 |
| 26797 | Kainit 14% | Centreville | ..... | ..... | 12.04 | 14.00 | ..... | ..... | ..... | ..... | ..... | ..... |
| 39945 | Matchless Fertilizer | Baltimore | 2.02 | 2.00 | 4.66 | 4.00 | .35 | ..... | 8.60 | 8.00 | 43.18 | 40.00 |
| 26671 | No. 2 High Grade Grain Grower | Baltimore | 2.14 | 2.00 | 3.84 | 4.00 | .85 | ..... | 11.35 | 10.00 | 46.01 | 43 00 |
| 39879 | Plant Bed Fertilizer | Baltimore | 4.52 | 5.00 | 2.08 | 2.00 | .85 | ..... | 8.50 | 8.00 | 55.49 | 58.00 |
| 39869 | Pulverized Sheep Manure | Baltimore | 1.45 | 2.00 | 2.32 | 2.00 | *2.30 | *1.00 | ..... | ..... | 19.94 | 22.60 |
| 39850 | Red Steer | Baltimore | 2.29 | 2.00 | 3.60 | 2.00 | 1.17 | ..... | 8.02 | 8.00 | 41.62 | 34 00 |
| 39880 | Reliable Fertilizer | Baltimore | 1.25 | 1.00 | .80 | 1.00 | .75 | ..... | 10.20 | 8.00 | 28.00 | 23.00 |
| 39946 | Royal Tomato Grower | Baltimore | 2.12 | 2.00 | 5.48 | 5.00 | .28 | | 7.92 | 7.00 | 45.39 | 41.50 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39860 | Southern Planters Favorite | Baltimore | 3.09 | 3.00 | 3.64 | 3.00 | 1.00 | | 10.15 | 8.00 | 51.27 | 45.00 |
| 26754 | Special Corn Grower | Baltimore | 2.01 | 2.00 | | | .45 | | 10.70 | 10.00 | 32.31 | 31.00 |
| 39833 | Special Diamond "A" Fertilizer | Baltimore | 3.02 | 3.00 | | | .50 | | 8.25 | 8.00 | 36.74 | 36.00 |
| 39890 | Special Formula 5-8-3 | Baltimore | 4.81 | 5.00 | 2.30 | 3.00 | .20 | | 8.95 | 8.00 | 58.89 | 61.00 |
| 39958 | Special Phosphate & Potash | Cordova | | | 1.76 | 2.00 | 1.25 | | 12.05 | 10.00 | 23.61 | 21.00 |
| 26962 | Special Top Dresser | Baltimore | 8.11 | 10.00 | | | .65 | | 5.70 | 5.00 | 73.69 | 87.50 |
| 26672 | Standard Potato Fertilizer | Baltimore | 2.17 | 2.00 | 3.82 | 3.00 | 1.55 | | 6.80 | 8.00 | 39.64 | 37.00 |
| 39835 | Three Ten Naught | Baltimore | 2.90 | 3.00 | | | 1.65 | | 10.05 | 10.00 | 38.94 | 39.00 |
| 26770 | Truck & Potato Fertz. 4-8-0 | Baltimore | 3.89 | 4.00 | | | .30 | | 10.40 | 8.00 | 46.84 | 44.00 |
| 26755 | Wheat & Corn Grower 2-12-2 | Baltimore | 2.01 | 2.00 | 2.18 | 2.00 | .40 | | 13.60 | 12.00 | 43.18 | 40.00 |
| 39959 | Wheat Grower Phos. & Potash | Greensboro | | | 2.03 | 2.00 | 1.43 | | 13.92 | 12.00 | 27.26 | 24.00 |
| 26756 | White Potato Fertz, 4-8-3 | Baltimore | 3.45 | 4.00 | 3.12 | 3.00 | .20 | | 8.80 | 8.00 | 50.24 | 53.00 |
| | **Tanner Hide & Tallow Co., Hagerstown, Md.** | | | | | | | | | | | |
| 26762 | Bone Phosphate (Low Grade) | Hagerstown | 1.83 | 2.00 | | | 5.75 | 4.00 | 11 55 | 8.00 | 34.27 | 29.60 |
| 26763 | Tankage (Low Grade) | Hagerstown | 6.07 | 5.00 | | | | | | | 48.56 | 40.00 |
| | **H. S. Taveau & Co., Baltimore, Md.** | | | | | | | | | | | |
| 39836 | Allerton Guano | Baltimore | 1.13 | 1.00 | 2.05 | 2.00 | 1.25 | | 9.02 | 8.00 | 29.22 | 26.00 |
| 26673 | Blood, Bone & Potash | Baltimore | 3.02 | 3.00 | 2.28 | 2.00 | .80 | | 10.35 | 9.00 | 46.85 | 43.50 |
| 26678 | Pride of Maryland | Baltimore | 1.13 | 1.00 | 1.20 | 1.00 | 1.07 | | 11.03 | 10.00 | 29.62 | 26.00 |
| 39998 | Sweet Patato Manure | Baltimore | 2.02 | 2.00 | 1.12 | 1.00 | 1.25 | | 9.15 | 9.00 | 33.75 | 32.50 |
| | **W. B. Tilghman Co., Salisbury, Md.** | | | | | | | | | | | |
| 39961 | Fish, Bone Potash Mixture | Salisbury | 1.23 | 1.00 | 2.16 | 2.00 | 1.38 | | 11.72 | 10.00 | 34.45 | 29.00 |
| 39962 | H. G. Early Truck Guano | Salisbury | 5.02 | 5.00 | 6.92 | 5.00 | 1.18 | | 8.57 | 8.00 | 74.25 | 67.00 |
| 39963 | Irish "P" | Marion Station | 6.60 | 7.00 | 5.12 | 5.00 | .70 | | 8.50 | 6.00 | 81.19 | 80.00 |
| 39964 | Mixture "B" | Salisbury | 4.13 | 4.00 | 4.04 | 4.00 | 1.03 | | 9.77 | 8.00 | 60.23 | 56.00 |
| 39965 | Special Early Truck Mixture | Salisbury | 4.85 | 5.00 | 3.80 | 3.00 | 1.28 | | 9 62 | 8.00 | 65.14 | 61.00 |
| 39966 | Special Fish for Sweet Potatoes | Salisbury | 2.18 | 2.00 | 5.48 | 5.00 | 1.43 | | 9.52 | 7.00 | 43.73 | 41.50 |
| 39967 | Special Potato | Salisbury | 3.03 | 3.00 | 5.22 | 5.00 | 1.18 | | 9.67 | 8.00 | 54 88 | 51.00 |
| 39968 | Special Top Dressing Mixture | Salisbury | 5.51 | 6.00 | | | | | | | 44.08 | 48.00 |
| 39969 | Standard Fish Mixture | Salisbury | 2.27 | 2.00 | 2.28 | 2.00 | 1.50 | | 11.75 | 10.00 | 43.23 | 37.00 |
| 39970 | Standard Tomato | Salisbury | 2.03 | 2.00 | 4.76 | 4.00 | .75 | | 10.50 | 8.00 | 46.57 | 40.00 |
| 39971 | 3-8-3 | Salisbury | 3.02 | 3.00 | 3.72 | 3.00 | 1.28 | | 9.37 | 8.00 | 49 89 | 45.00 |
| | **Turner & Son, Betterton, Md.** | | | | | | | | | | | |
| 26710 | Corn & Tomato Guano | Baltimore | 1.35 | 1.00 | 2.28 | 2.00 | 1.15 | | 8.02 | 8.00 | 30.13 | 26.00 |
| | **J. E. Tygert Co., Phila., Pa.** | | | | | | | | | | | |
| 26757 | Prolific Fertilizer | Baltimore | 1.21 | 1.00 | 1.16 | 1.00 | 1.00 | | 9.02 | 8.00 | 27.09 | 23.00 |
| 26733 | Victor Crop Grower | Baltimore | 1.06 | 1.00 | 4.34 | 4.00 | 1.10 | | 8.70 | 8.00 | 34.99 | 32.00 |

*Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **J. Tyson & Son, Frederick, Md.** | | | | | | | | | | | |
| 26688 | Corn & Potato Fertilizer | Frederick | 1.16 | 1.00 | 1.42 | 1.00 | [illegible].92 | ..... | 11.68 | 11.00 | $31.36 | $27.50 |
| | **E. S. Valliant & Son, Church Hill, Md.** | | | | | | | | | | | |
| 39901 | Acid Phosphate 16%, | Baltimore | ..... | ..... | ..... | ..... | .60 | ..... | 17.40 | 16.00 | 26.23 | 24.00 |
| 39902 | Excelsior | Baltimore | 4.45 | 4.00 | 3.86 | 4.00 | 1.00 | ..... | 9.40 | 8.00 | 61.68 | 56.00 |
| 39936 | Favorite | Baltimore | 2.03 | 2.00 | ..... | ..... | 1.37 | ..... | 10.88 | 10.00 | 33.11 | 31.00 |
| 39922 | 5-6-5 Fertilizer | Baltimore | 4.52 | 5.00 | 4.80 | 5.00 | 1.30 | ..... | 7.15 | 6.00 | 61.81 | 64.00 |
| 39903 | General Crop Mixture | Baltimore | 1.35 | 1.00 | 1.04 | 1.00 | 1.40 | ..... | 8.60 | 8.00 | 27.38 | 23.00 |
| 39904 | Harvest | Baltimore | 2.27 | 2.00 | 2.02 | 2.00 | 1.10 | ..... | 9.10 | 8.00 | 38.31 | 34.00 |
| 39905 | National | Baltimore | 2.54 | 3.00 | 2.57 | 3.00 | 1.05 | ..... | 9.05 | 8.00 | 42.03 | 45.00 |
| 26702 | 1-9-0 Fertilizer (L. Gr.) | Baltimore | 1.16 | 1.00 | ..... | ..... | 1.15 | ..... | 9.90 | 9.00 | 24.59 | 21.50 |
| 39947 | 1-9-3 Fertilizer | Baltimore | 1.14 | 1.00 | 3.40 | 3.00 | 1.35 | ..... | 9.35 | 9.00 | 33.89 | 30 50 |
| 39906 | Tomato Mixture | Baltimore | 1.06 | 1.00 | 3.58 | 4.00 | 1.60 | ..... | 9.40 | 8.00 | 33.96 | 32.00 |
| 39923 | 2-8-5 Fertilizer | Baltimore | 2.08 | 2.00 | 4.76 | 5.00 | 1.28 | ..... | 8.92 | 8.00 | 44.81 | 43.00 |
| | **Wm. H. Valliant & Bro., Bellevue, Md.** | | | | | | | | | | | |
| 39972 | Crab Phosphate (L. Gr.) | Bellevue | 2.70 | 2.00 | ..... | ..... | .50 | ..... | 2.50 | 2.00 | 25.55 | 19.00 |
| 39973 | Fish Mixture (L. Gr.) | Bellevue | 2.12 | 2.00 | 2.40 | 2.00 | 1.70 | ..... | 7.15 | 5.00 | 35.57 | 29.50 |
| 26798 | King Crop Grower | Bellevue | 1.52 | 2.00 | 3.40 | 2.00 | 2.75 | ..... | 10.15 | 8.00 | 38.69 | 34.00 |
| 26799 | Tomato Grower (L. Gr.) | Bellevue | 1.66 | 2.00 | 2.16 | 1.00 | 1.75 | ..... | 6.85 | 5.00 | 30.74 | 26.50 |
| | **Virginia-Carolina Chemical Co., Richmond, Va.** | | | | | | | | | | | |
| 39924 | Best Crop Formula | Baltimore | 2.15 | 2.00 | 5.92 | 6.00 | 2.33 | 1.00 | 10.87 | 10.00 | 52.20 | 49.40 |
| 39933 | Best Potato Formula | Baltimore | 4.13 | 4.00 | 6.36 | 6.00 | 1.13 | 1.00 | 9.27 | 8.00 | 66.48 | 62.40 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26938 | Fish, Bone & Potash | Baltimore | 2.20 | 2.00 | 4.04 | 3.00 | 1.78 | 1.00 | 9.12 | 8.00 | 44.11 | 37.40 |
| 39934 | Fish & Bone Mixture | Baltimore | 2.02 | 2.00 | ..... | ..... | 3.03 | 1.00 | 12.82 | 11.00 | 36.60 | 32.90 |
| 26774 | Fish Preparation | Baltimore | 1.28 | 1.00 | ..... | ..... | 1.45 | 1.00 | 10.45 | 10.00 | 26.50 | 23.40 |
| 39999 | 1-9-3 Fertilizer | Baltimore | 1.14 | 1.00 | 3.26 | 1.00 | 2.82 | ..... | 10.18 | 9.00 | 35.30 | 30.50 |
| 39948 | Sp cial Compound | Baltimore | 1.19 | 1.00 | 1.28 | 1.00 | 2.25 | 1.00 | 9.05 | 8.00 | 27.84 | 23.40 |
| 39949 | Standard Grain Grower | Baltimore | .90 | 1.00 | 1.78 | 2.00 | 2.72 | 1.00 | 9.38 | 8.00 | 27.70 | 26.40 |
| | **S. L. Webster & Son, Cambridge,** | **Md.** | | | | | | | | | | |
| 39974 | Fish & Bone | Cambridge | 1.08 | 1.00 | 2.40 | 2.00 | 1.38 | ..... | 9.87 | 8.00 | 31.20 | 26.00 |
| 26758 | Fish Mixture | Baltimore | 1.30 | 1.50 | 2.44 | 2.00 | 1.00 | ..... | 9.45 | 8.00 | 32.30 | 30.00 |
| 39975 | Fish & Tankage | Cambridge | 2.13 | 2.00 | 3.20 | 3.00 | 1.70 | ..... | 8.20 | 8.00 | 39.62 | 37.00 |
| 39976 | Our No. 2 | Cambridge | 2.17 | 2 00 | 2.36 | 2.00 | 2.25 | ..... | 9.35 | 8.00 | 39.37 | 34.00 |
| 39977 | Our Sweet Potato Guano | Cambridge | 2.02 | 2.00 | 5.04 | 5.00 | 1.30 | ..... | 10.30 | 8.00 | 47.25 | 43.00 |
| | **Westminster Fertilizer Co., West** | **minster, Md.** | | | | | | | | | | |
| 26724 | Governor | Westminster | 1.55 | 1.50 | ..... | ..... | 1.70 | ..... | 11.45 | 11.00 | 30.26 | 28.50 |
| 26725 | Leader | Westminster | 1.14 | 1.00 | 1.04 | 1.00 | .75 | ..... | 10.35 | 9.00 | 28.07 | 24.50 |
| 26726 | Potato Special | Westminster | 1.16 | 1.00 | 2.84 | 3.00 | 1.90 | ..... | 9.90 | 9.00 | 33.4 | 30.50 |
| 26727 | Super "A" (Low Grade) | Westminster | 1.01 | 1.00 | ..... | ..... | .93 | ..... | 11.77 | 9.00 | 26.11 | 21.50 |
| | **F. M. Wilson & Co., Pocomoke City,** | **Md.** | | | | | | | | | | |
| 39978 | Favorite Truck | Pocomoke City | 4.06 | 5.00 | 4.40 | 5.00 | 1.45 | ..... | 9.95 | 8.00 | 61.19 | 67.00 |
| 26930 | Peninsula Amm'd Super Phos | Pocomoke City | 1.66 | 2.00 | 1.08 | 1.00 | 1.35 | ..... | 15.25 | 12.00 | 39.94 | 37.00 |
| | **Robert A. Wooldridge Co., Balto.,** | **Md.** | | | | | | | | | | |
| 39837 | Acid Phosphate H. G. 16% | Baltimore | ..... | ..... | ..... | ..... | 1.23 | ..... | 16.82 | 16.00 | 25.48 | 24.00 |
| 26931 | American Potash Mixture | Centreville | ..... | ..... | 2.12 | 2.00 | 1.23 | ..... | 10.82 | 10.00 | 22.84 | 21.00 |
| 26932 | Basic Lime Phosphate (L. Gr.) | Centreville | ..... | ..... | ..... | ..... | 2.93 | 1.00 | 13.97 | 13.00 | 21.55 | 19.70 |
| 26734 | Champion Stag Phosphate | Baltimore | 1.25 | 1.00 | 2.03 | 2.00 | .88 | ..... | 10.12 | 9.00 | 31.62 | 27.50 |
| 39925 | Chieftain Phosphate | Baltimore | 2.03 | 2.00 | 2.10 | 2.00 | 2.05 | ..... | 8.50 | 8.00 | 36.11 | 34.00 |
| 39937 | Clover Blossom | Baltimore | 1.04 | 1.00 | 2.02 | 2.00 | 1.42 | ..... | 8.28 | 8.00 | 27.37 | 26.00 |
| 39861 | Common Sense Super-Phos | Baltimore | 4.35 | 4.00 | ..... | ..... | 1.50 | ..... | 9.90 | 10.00 | 50.25 | 47.00 |
| 26775 | Farmers Fav. Cereal Comp. (L.G.) | Baltimore | .90 | 1.00 | 1.02 | 1.00 | .85 | ..... | 7.65 | 7.00 | 22.08 | 21.50 |
| 39926 | Fish Mixture No. 1 (L. Gr.) | Baltimore | 1.01 | 1.00 | .64 | 1.00 | 2.40 | ..... | 7.20 | 7.00 | 21.76 | 21.50 |
| 39892 | Fish Mixture No. 2 | Baltimore | 2.10 | 2.00 | 2.08 | 2.00 | 1.45 | ..... | 8.45 | 8.00 | 36.30 | 34.00 |
| 26735 | General Crop Grower (L. Gr.) | Towson | 1.14 | 1.00 | ..... | ..... | 1.33 | ..... | 11.12 | 8.00 | 26.33 | 20.00 |
| 39881 | Golden Crown 7-6-5 | Baltimore | 6.01 | 7.00 | 4.56 | 5.00 | 1.40 | ..... | 6.70 | 6.00 | 72.37 | 80.00 |
| 26736 | Liberty Bell Mixture | Baltimore | ..... | ..... | 2.72 | 3.00 | .73 | ..... | 13.07 | 12.00 | 27.92 | 27.00 |
| 26737 | No. 1 Phos. & Potash (L. Gr.) | Towson | ..... | ..... | 4.12 | 3.00 | .75 | ..... | 7.95 | 6.00 | 24.44 | 18.00 |
| 39938 | Old Fidelity | Baltimore | 2.15 | 2.00 | ..... | ..... | 2.30 | ..... | 10.02 | 10.00 | 33.15 | 31.00 |
| 39950 | Sovereign Trucker | Baltimore | 4.57 | 5.00 | 4.90 | 5.00 | 2.35 | ..... | 7.40 | 7.00 | 63.30 | 65.50 |

| No. | Name and Address of Manufacturer and Name of Fertilizer | Place of Sampling (and Senders initials when not Sampled by the College Agent.) | NITROGEN Calculated as AMMONIA. | | POTASH. $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Robert A. Wooldridge Co., Balto., Md.** | | | | | | | | | | | |
| 39853 | Special Plant Bed Fertilizer.... | Baltimore..... | 9.47 | 10.00 | ..... | ..... | 1.12 | ..... | 6.23 | 5.00 | $85.56 | $87.50 |
| 26649 | Special Potato & Tob. Fertz.... | Baltimore..... | 2.35 | 2.00 | 2.34 | 2.00 | .87 | ..... | 11.23 | 10.00 | 43.02 | 37.00 |
| 26711 | Triangle Brand..... | Baltimore..... | 1.16 | 1.00 | 4.04 | 4 00 | 1.20 | ..... | 8.45 | 8.00 | 34.56 | 32.00 |
| 39939 | Triumph Brand Phosphate..... | Baltimore..... | 1.01 | 1.00 | 3.76 | 4.00 | 2.27 | ..... | 8.03 | 8.00 | 32.32 | 32.00 |
| 39844 | Triumph Brand Phosphate..... | Baltimore..... | 1.91 | 2.00 | 3.04 | 3.00 | 2.45 | ..... | 8.90 | 8.00 | 38.73 | 37.00 |
| | **C. M. Woolf & Co., Washington, D. C.** | | | | | | | | | | | |
| 26945 | Potato Fertilizer..... ..... | Glendale..... | 2.13 | 2.00 | 2.44 | 4.00 | .73 | ..... | 9.37 | 8.00 | 38.71 | 40.00 |
| | **Worcester Fertilizer Co., Snow Hill, Md.** | | | | | | | | | | | |
| 26933 | Acid Phosphate 16%..... | Snow Hill..... | ..... | ..... | ..... | ..... | .50 | ..... | 17.95 | 16.00 | 27.03 | 24.00 |
| 26934 | Corn Producer..... | Snow Hill..... | 1.16 | 1.00 | 2.04 | 2.00 | .75 | ..... | 10.02 | 8.00 | 30.73 | 26.00 |
| 39979 | Early Trucker..... | Snow Hill..... | 5.15 | 5.00 | 5.24 | 5.00 | 2.25 | ..... | 9.85 | 8.00 | 72.60 | 67.00 |
| 26935 | Fish, Bone & Potash..... | Snow Hill.. ... | 2.25 | 2.00 | 2.32 | 2.00 | .78 | ..... | 9.37 | 8.00 | 39.33 | 34.00 |
| 26936 | Sweet Potato Special..... | Snow Hill..... | 2.90 | 3.00 | 4.16 | 4.00 | .73 | ..... | 9.57 | 8.00 | 50.33 | 48.00 |

# TABLE II

## FIRST SUPPLEMENT—REGISTRATION OF FERTILIZERS FOR 1920.

**Registrations from March 2 to August 10. For Registrations up to March 1 See February Quarterly No. 87.**

**For Key See Page 36.**

| FIRM AND BRANDS | PER CENT AND SOURCES OF | | |
|---|---|---|---|
| | Ammonia (or Nitrogen) | Phosphoric Acid Available | Potash Soluble |
| **Alexandria Fert. & Chem. Co., Alex., Va.** | | | |
| Gilt Edge Compound | 1 TFMAN | 8 RFT | 2 MSNT |
| Reliable Fish Mixture | 1 " | 10 " | 0 |
| H. G. 16% Acid Phosphate | 0 | 16 | 0 |
| Dissolved Acid Phosphate | 0 | 14 | 0 |
| Basic Lime Phosphate (Low Grade) | 0 | 13 | 0 |
| Special Bone Mixture | 1½ B | 19 RB | 0 |
| Pure Raw Bone | 4½ | 21.51* | ..... |
| Fine Ground Bone | 3 | 22.88* | ..... |
| **American Fertilizing Co., Balto., Md.** | | | |
| Standard 7% Ammoniated Guano | 7 TNCANat | 7 RB | 5 NMKTD |
| Truck Ammoniated Superphosphate | 5 " | 8 " | 0 |
| **C. E. Baechtel, Hagerstown, Md.** | | | |
| Patriot | 1 Ct | 10 R | 0 |
| Wheat and Grass Producer | 1 " | 8 " | 3 D |
| **Baltimore Fertilizer Co., Balto., Md.** | | | |
| Old Honesty (Low Grade) | 1 TNACB | 8 RT | 0 |
| Honest Crop Grower | 1 " | 8 " | 1 KMD |
| " Potato Grower | 1 " | 9 " | 3 " |
| " Ammoniated Bone | 2 " | 8 " | 2 " |
| " Trucker | 5 " | 6 " | 5 " |
| " 12 and 2 | 0 | 12 " | 2 " |
| " Acid Phosphate | 0 | 16 " | 0 |
| **Baltimore Pulverizing Co., Balto., Md.** | | | |
| Truckers' Choice | 3 NFt | 8 R | 2 n |
| Royal Compound | 2 Nt | 8 " | 1 K |
| Special Potato Mixture | 2 " | 7 " | 3 n |
| Harvest King | 1 " | 10 " | 2 Mn |
| Spec. Sp. and Fall Mixt. (Low Grade) | 0 | 8 " | 1 K |
| **Acme Brands:** | | | |
| Harvest King | 1 " | 10 " | 2 Mn |
| Ammoniated Fish | 3 FNt | 8 " | 0 |
| **Beckley Fertilizer Co., Halfway, Md.** | | | |
| Wheat and Grass Grower | 1 Ct | 10 R | 3 D |
| Bone Mixture | 1½ TCt | 14 " | 0 |
| Fish Bone Compound | 1½ FCt | 10 " | 0 |
| Crop Grower | 1 Ct | 12 " | 0 |
| Dissolved Phosphate | 0 | 16 | 0 |
| **Berg Company, Philadelphia, Pa.** | | | |
| Bone and Meat | 4 | 14 | 0 |
| Ground Raw Bone | 4¼ | 18½ | 0 |
| 3 and 50 Bone | 3 | 18½ | 0 |
| Spec. Ani. Man. with't Pot. (Low Grade) | 2.43 | 7 | 0 |
| **C. H. Braun Sons, Baltimore, Md.** | | | |
| General Crop Grower | 2 NT | 8 RT | 2 K |
| Truck Grower | 4 NTD | 8 " | 3 D |
| Special | 3 NT | 10 " | 2 " |
| **Herbert Bryant's Son, Alexandria, Va.** | | | |
| Standard Fish and Bone | 2 FC | 10 RF | 0 |
| Standard Empress | 1¼ TC | 10 RT | 0 |
| Empress Amm'd Dissolved Bone | 1 " | 8 " | 1 K |
| H. G. Acid Phosphate | 0 | 16 | 0 |
| **Central Chemical Co., Hagerstown, Md.** | | | |
| Phoenix Brand (Low Grade) | ½ t | 8 R | ½ D |
| Dissolved Phosphate (Low Grade) | 0 | 12 | 0 |
| Potato and Truck Grower | 4 NTCt | 8 " | 3 MD |
| Truckers' Pride | 5 " | 10 " | 0 |
| Cumberland Valley Special | 1¼ TAC | 10 " | 0 |
| Top Dresser | 7 ACt | 8 " | 0 |
| Commonwealth | 0 | 10 " | 2 D |
| Golden Sheaf | 1 ANCt | 8 " | 1 " |
| Crown Jewell | 1 " | 9 " | 3 " |

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| FIRM AND BRANDS | PER CENT AND SOURCES OF | | |
|---|---|---|---|
| | Ammonia (or Nitrogen) | Phosphoric Acid Available | Potash Soluble |
| **Central Chemical Co., Hagerstown, Md.** | | | |
| Canners' Special | 2 TCA | 8 R | 5 D |
| Eclipse Brand | 2 CAt | 10 " | 3 " |
| Potato Special | 4 TCAN | 8 " | 7 " |
| Truck and Potato Special | 5 " | 8 " | 5 " |
| High Grade Potato | 5 " | 8 " | 7 " |
| Truckers' Delight | 4 " | 8 " | 5 " |
| Top Dresser with Potash | 7 " | 8 " | 3 " |
| Truckers' Potash Special | 2 TCA | 8 " | 3 " |
| Truck and Pota Special | 5 TACN | 8 " | 5 " |
| Farmers' Compound | 1½ " | 14 " | 0 |
| Grain and Grass Grower | 2 " | 12 " | 2 KD |
| **Dize & North, Crisfield, Md.** | | | |
| Crab Guano (Low Grade) | 3 | 3½ | 0 |
| **W. R. Dorsey, Ellicott City, Md.** | | | |
| Mixture "D" | 2.40 BF | 10 RFB | 0 |
| **Eastern Guano Co., New York, N. Y.** | | | |
| Potash Special | 0 | 10 R | 2 KD |
| Empire | 0 | 10 " | 4 " |
| Premier | 2 TCNA | 8 " | 3 " |
| Economy Brand | 2 " | 12 " | 2 " |
| **Eureka Chemical Co., Baltimore, Md.** | | | |
| Fish and Potash (Low Grade) | ½ Tt | 8 Tb | 2 MK |
| Farmers' Favorite | 2 TANb | 8 RTA | 2 " |
| **Farm. Exchange Co., Union Bridge, Md.** | | | |
| Union Bridge Favorite | 1 TAC | 8 R | 2 K |
| **Farmers' F. & F. Co., Westminster, Md.** | | | |
| Our Potato Manure | 2 NAt | 8 R | 5 MD |
| **Griffith & Turner Co., Baltimore, Md.** | | | |
| Amm'd Alkaline Plt. Food (Low Grade) | 1 NTb | 6 RT | 1½ KND |
| Amm'd Butchers' Bone Phosphate | 1¼ " | 9 " | 1½ " |
| **Hubbard Fertilizer Co., Balto., Md.** | | | |
| 5-8-3 Fertilizer | 5 NTA | 8 R | 3 MKD |
| Fish Mixture | 1 " | 8 " | 1 " |
| Pure Raw Bone | 4½ | 22.50* | 0 |
| Noxall Guano | 4 " | 8 R | 4 MD |
| **M. P. Hubbard Co., Inc., Balto., Md.** | | | |
| Dissolved Phosphate | 0 | 16 | 0 |
| Big Jim Compound (Low Grade) | ½ TANFB | 8 RBT | 1 MKD |
| Good and Cheap Compound | 1 " | 8 " | 1 " |
| Excelsior | 1 " | 8 " | 2 " |
| Acme | 1 " | 8 " | 4 " |
| Celebrated | 2 " | 8 " | 2 " |
| Old Economy (Low Grade) | ½ " | 8 " | 2 " |
| Soluble Phosphate and Potash | 0 | 10 " | 2 " |
| **J. George Harr, Baltimore, Md.** | | | |
| Comet | 2 FTN | 10 RF | 0 |
| Bright Star | 1 " | 8 " | 1 K |
| Fish and Potash Mixture | 2 " | 8 " | 2 KM |
| **Koller Fertilizer Co., Seitzland, Pa.** | | | |
| Ammoniated Phosphate | 1 TNt | 8 R | 1 KMD |
| Potato Grower Phosphate | 1 " | 7 " | 2 " |
| Special PG Phosphate | 1 " | 7 " | 4 " |
| H. G. Acid Phosphate | 0 | 16 | 0 |
| **Listers Agr'l Chem. Wks., Newark, N. J.** | | | |
| Soil Improver (Low Grade) | 1 TFAb | 8 RFT | 0 |
| Excelsior Guano | 3 TFANb | 10 " | 0 |
| Fish Brand Fertilizer | 1 " | 9 " | 2 MSC |
| Success Fertilizer | 2 " | 8 " | 2 " |
| Big Crop Grower | 2 " | 8 " | 4 " |
| Eastern Pride Fertilizer | 3 " | 8 " | 4 " |
| Perfect Potato Manure | 4 " | 8 " | 4 " |
| Special Truck Fertilizer | 4 " | 8 " | 4 " |
| Special Wheat Fertilizer | 2 " | 8 " | 3 " |
| Atlas Brand Fertilizer 1916 | 5 " | 8 " | 0 |
| Special Potato Fertilizer | 4 " | 9 " | 1 " |
| Bone Meal 1916 | 3 | 22.88* | 0 |
| Cel. Ground Bone and Tank Acid | 3¼ T | 7 RB | 0 |
| 5% Vegetable Fertilizer | 5 TFANb | 7 RFT | 5 MSC |
| H. G. Potato Guano | 7 " | 6 " | 3 " |

| FIRM AND BRANDS | FIRM AND BRANDS | | |
|---|---|---|---|
| | Ammonia (or Nitrogen) | Phosphoric Acid Available | Potash Soluble |
| **Martin Fertilizer Co., Phila., Pa.** | | | |
| Pure Dissolved Animal Matter | 2 B | 12 B | 0 |
| Bull Head Fertilizer | 3 TN | 8 RB | 3 M |
| Early Truck and Vegetable Grower | 4 " | 8 " | 5 " |
| Special Compound | 2 " | 8 " | 5 " |
| 7% Guano | 7 " | 6 " | 5 " |
| 5–8–5 | 5 " | 8 " | 5 " |
| Ammoniated Guano | 7 " | 6 " | 0 |
| 3–8–2 | 3 " | 8 " | 2 " |
| 3–8–1 | 3 " | 8 " | 1 " |
| 4–8–4 | 4 " | 8 " | 4 " |
| Potash and Soluble Phosphate | 0 | 12 R | 3 " |
| Acid Phosphate 16% | 0 | 16 | 0 |
| Raw Bone Meal | 4½ | 21 | 0 |
| Pure Ground Bone | 2 | 22.90 | ..... |
| **Md. Milling & Sup. Co., Sykesville, Md.** | | | |
| H. G. Acid Phosphate | 0 | 16 | 0 |
| Acid Phosphate | 0 | 14 | 0 |
| Phosphate and Potash | 0 | 10 R | 2 K |
| Corn and Oat Mixture | 1 T | 8 " | 1 " |
| Special Potato Mixture | 1 " | 8 " | 4 KB |
| **Massey & Kilbourne, Chestertown, Md.** | | | |
| Trustworthy Super-phosphate | 2 NTb | 10 Rb | 0 |
| Propagator Super-phosphate | 2 " | 8 " | 2 KD |
| Crop Producer Super-phosphate | 1 " | 9 " | 3 D |
| Try Me Super-phosphate (Low Grade) | ½ Tb | 9 " | 2 K |
| Corn Super-phosphate | 1 NTb | 8 " | 1 " |
| 10–5 Super-phosphate | 0 | 10 R | 5 KD |
| 12–3 Super-phosphate | 0 | 12 " | 3 K |
| 16% Acid Phosphate | 0 | 16 | 0 |
| **Miller Fertilizer Co., Baltimore, Md.** | | | |
| Wheat and Grass Grower | 2 ANTt | 12 RB | 2 K |
| 4% Alkaline | 0 | 10 " | 4 D |
| **J. B. Nichols & Son, Baltimore, Md.** | | | |
| Farmers' Friend Fertilizer | 4 TANF | 7 RFT | 1 Mc |
| **Nitrate Agencies Co., New York, N. Y.** | | | |
| Nitrate of Soda | 18¼ | 0 | 0 |
| Acid Phosphate | 0 | 16 | 0 |
| Nitrapo | 18¼ | 0 | 15 |
| Muriate of Potash | 0 | 0 | 49 |
| 2–8–2 All Crop Formula | 2 NAT | 8 R | 2 K |
| **Patapsco Guano Co., Baltimore, Md.** | | | |
| Early Trucker | 5 TFANM | 7 RFT | 5 MSc |
| Chippewa Guano | 3 " | 8 " | 3 " |
| 5–7–1 Fertilizer | 5 " | 7 " | 1 " |
| **Patuxent Fish & Oil Co., Solomons, Md.** | | | |
| Truckers Joy | 3 FT | 9 R | 1 B |
| Farmers Harvester (Low Grade) | 2 " | 9 " | ¼ FT |
| **Peerless Fert. Co., Chestertown, Md.** | | | |
| Old Reliable (Low Grade) | 1 BT | 8 RB | 0 |
| Fish Mixture (Low Grade) | 2 BHFN | 8 RFB | 0 |
| Ford's Ideal (Low Grade) | ½ BT | 8 RB | 3 M |
| Corn Fertilizer (Low Grade) | ½ T | 8 R | 0 |
| Wheat and Clover (Low Grade) | ½ THB | 8 RB | 0 |
| **Piedmont-Mt. Airy Guano Co., Balto., Md.** | | | |
| Piedmont 16% Acid Phosphate | 0 | 16 | 0 |
| " Utility Fertilizer | 2 TAt | 10 RT | 0 |
| " Spec. Crop Grower | 1 " | 10 " | 0 |
| " Peerless Phosphate | 1 " | 8 " | 1 K |
| " Stand. Dis. Bone Phos | 1 " | 10 " | 1 " |
| " Plow Brand | 2 | 8 " | 2 " |
| " Raw and Dissolved Bone | 3 | 21* | ..... |
| Levering's Excelsior | 1 TAt | 8 RT | 1 K |
| " Harvest Queen | 1 " | 8 " | 2 " |
| " Standard | 2 " | 8 " | 3 " |
| **Poultry Feed Co., Chicago, Ill.** | | | |
| Pulverized Poultry Man. (Low Grade) | 5 | 2¾ | 1.30 |
| **Ramsburg Fertilizer Co., Frederick, Md.** | | | |
| Excelsior Plant Food | 2 TBDN | 8 RB | 2 MD |
| Old Virginia Compound | 1 TBN | 8 " | 4 " |
| Ammoniated Bone Phosphate | 1 TBND | 9 " | 2 " |

| FIRM AND BRANDS | PER CENT AND SOURCES OF | | |
|---|---|---|---|
| | Ammonia (or Nitrogen) | Phosphoric Acid Available | Potash Soluble |
| **Ramsburg Fertilizer Co., Frederick, Md.** | | | |
| Wm. Wheat and Grass Fertilizer | 1 TBND | 9 RB | 1 MD |
| Queen (Low Grade) | ½ Tt | 8 R | 2 " |
| Super Phosphate | 0 | 16 | 0 |
| Rock, Salt and Plaster (Low Grade) | 0 | 5½ R | 0 |
| Corn and Potato Feritilizer | 1 TBND | 8 RB | 1 " |
| Hood's Special Mixture | 1 TBN | 8 " | 1 " |
| **W. E. Robinson & Co., Bel Air, Md.** | | | |
| Vegetable and Grain Fertilizer | 2 FT | 8 RFT | 2 KMD |
| Potato Grower | 2 " | 8 " | 4 " |
| **F. S. Royster Guano Co., Balto., Md.** | | | |
| Trucker's Delight | 4 AFT | 8 RT | 4 M |
| Peninsula Corn Grower (Low Grade) | 0 | 11 R | 0 |
| Scout Guano | 2 " | 8 RA | 7 " |
| Seeding Down Guano | 1 FT | 9 RT | 3 SKD |
| **Superior Guano Co., Balto., Md.** | | | |
| Acid Phosphate | 0 | 16 | 0 |
| Corn and Grass (Low Grade) | 0 | 8 R | 1¼ a |
| Half and Half (Low Grade) | 0 | 8 " | 1¼ " |
| Ammoniated Dissolved Bone | 1¼ BT | 10 RB | 0 |
| Fish Mixture | 2 FT | 10 RFT | 0 |
| Corn and Tomato (Low Grade) | ½ T | 8 RT | 1 D |
| Crop Producer | 1 " | 8 " | 1 " |
| Ammoniated Phosphate and Potash | 1 " | 8 " | 2 " |
| Big Crop Grower | 2 TN | 8 " | 2 " |
| Bone, Blood and Potash | 5 TFNDB | 8 RFTB | 1 " |
| **Swift & Co., Baltimore, Md.** | | | |
| Golden Grain Grower | 2 NAT | 8 R | 5 NSCk |
| Three-Ten-Naught | 3 " | 10 " | 0 |
| Farmer's Favorite | 1¼ " | 10 " | 1 " |
| Golden Grain Grower | 2 " | 8 " | 5 M |
| 3-10-0 | 3 " | 10 " | 0 |
| White Potato Fertilizer | 4 " | 8 " | 3 " |
| Virginia Potato Grower | 5 " | 7 " | 0 |
| Special Truck Fertilizer | 5 " | 8 " | 0 |
| Special Baltimore Formula | 4 " | 10 " | 0 |
| Diamond "C" Fertilizer (Low Grade) | 1 " | 8 " | 0 |
| **Thomas & Co., Frederick, Md.** | | | |
| Blood and Bone | 2 NTAt | 10 R | 0 |
| Harvest Queen | 1¼ Tt | 10 " | 0 |
| Corn and Potato Fertilizer | 1¼ " | 10 " | 0 |
| Old Dominion | 1 " | 10 " | 0 |
| Plant Food (Low Grade) | 1 t | 9 " | 0 |
| Crop Producer (Low Grade) | 1 " | 8 " | 0 |
| Crop Grower | 1 " | 8 " | 1 KM |
| 16% Phosphate | 0 | 16 | 0 |
| 14% Phosphate | 0 | 14 | 0 |
| **Turner & Sons, Betterton, Md.** | | | |
| Corn and Tomato Guano | 1 TDBA | 8 RBT | 2 NTMS |
| **J. Tyson & Son, Frederick, Md.** | | | |
| Corn and Potato Fertilizer | 1 Tt | 11 R | 1 K |
| **Tyson Fert. Wks.(C.C.Co.)Frederick, Md.** | | | |
| XX High Grade | 2 NACt | 8 R | 2 D |
| Ammoniated Phosphate | 1 " | 9 " | 2 " |
| **E. S. Valliant & Son, Church Hill, Md.** | | | |
| Tomato Mixture | 1 NTDA | 8 RT | 4 MSKDc |
| Acid Phosphate | 0 | 14 | 0 |
| General Crop Mixture | 1 " | 8 RT | 1 MSKDc |
| Harvest | 2 " | 8 " | 2 " |
| National | 3 " | 8 " | 0 |
| Favorite | 2 " | 10 " | 0 |
| Excelsior | 4 " | 8 " | 4 MSKDc |
| Acid Phosphate | 0 | 16 | 0 |
| Ammoniated Potash Mix. (Low Grade) | ¼ NDTA | 10 RT | ¼ MSKDc |
| Grain Grower (Low Grade) | ½ " | 10 " | ¼ " |
| Ideal | 1 " | 9 " | 2 " |
| Big Three | 1 " | 9 " | 3 " |
| 1-9-0 (Low Grade) | 1 " | 9 " | 0 |
| 2-8-5 | 2 " | 8 " | 5 " |
| 5-6-5 | 5 " | 6 " | 5 " |
| 10-2 | 0 | 10 " | 2 " |
| 12-3 | 0 | 12 " | 3 " |

| FIRM AND BRANDS | PER CENT AND SOURCES OF | | |
|---|---|---|---|
| | Ammonia (or Nitrogen) | Phosphoric Acid Available | Potash Soluble |
| **E. S. Valliant & Son, Church Hill, Md.** | | | |
| 12–2 | 0 | 12 RT | 2 MSKDc |
| Kainit | 0 | 0 | 12 |
| **Valliant Fertilizer Co., Laurel, Del.** | | | |
| Jewel | 7 FB | 6 RB | 5 KMD |
| Harvest | 2 " | 8 " | 2 " |
| Quality | 3 " | 8 " | 5 " |
| Ideal | 1 " | 9 " | 2 " |
| Favorite | 2 " | 10 " | 0 |
| Arcadia | 5 " | 8 " | 5 " |
| Acid Phosphate | 0 | 16 | 0 |
| **Washington, Alexander & Cooke Co., Charles Town, W. Va.** | | | |
| Potato and Tob. Man. (Low Grade) | ½ t | 7 R | 2 K |
| Superphosphate | 0 | 16 | 0 |
| Valley Crop Producer | 2 ATb | 8 R | 2 K |
| **Harry W. Whistler, Bel Air, Md.** | | | |
| Crop Grower | 1 NACT | 8 R | 3 SMN |
| **Witherbee, Sherman & Co., Port Henry, N. Y.** | | | |
| Barium-Phosphate, Grade A | 0 | 28.00* | 0 |
| Barium-Phosphate, Grade B | 0 | 16.00* | 0 |
| Ground Phosphate Rock | 0 | 32.00* | 0 |
| **C. M. Woolf & Co., Washington, D. C.** | | | |
| Potato Fertilizer | 2 TFA | 8 RFT | 4 MSN |
| **Robert A. Wooldridge Co., Balto., Md.** | | | |
| Fish Mixture No. 2 | 2 TFMAN | 8 FTR | 2 MS |
| Triangle Brand | 1 " | 8 " | 4 MST |
| Ideal Grain and Grass Producer | 0 | 10 RTF | 4 MSc |
| Clover Blossom | 1 TFANb | 8 " | 2 " |
| Surety Crop Grower | 1 " | 9 " | 3 " |
| Chieftain Phosphate | 2 " | 8 " | 2 " |
| Sovereign Trucker | 5 " | 7 RB | 5 N |
| No. 1 Truck Phosphate | 7 " | 6 " | 3 " |
| Golden Crown Ani. Bone Truck Phos. | 7 " | 6 " | 5 " |

## MIXED TO ORDER FERTILIZERS AND HOME MIXING.

It is not infrequently the case that a farmer wishes to have his own formula mixed to order. This is provided for by Sec. 14 of the Fertilizer law. No special brand license or registration is required. However, the manufacturer is required to mark the bags, or the tags attached thereto, with the words "Mixed to Order," and add the guaranteed analysis of the mixture, which he can readily do by calculation from the formula and the composition of the ingredients, which should in all cases be known by him. The method of making this calculation is shown below.

As a rule the larger manufacturers do not care to make up small lots mixed to order, as the factories are arranged for mixing on a large scale. However, most of the smaller factories are glad to have this trade, provided they have the required ingredients. Such formulas should, of course, be made up with little or no filler.

Instead of having his formula "mixed to order" one may wish to buy the ingredients separate and do the mixing himself. This is not difficult to do, provided the ingredients are in the proper mechanical condition. The farmer would not be in a position to grind bones or coarse tankage, however.

The bulk of the phosphoric acid in fertilizers is derived from acid phosphate—the dissolved phosphate rock, with only a small percentage from bones or vegetable matter.

In the case of Nitrogen, generally spoken of in its equivalent of Ammonia, there has been considerable change in a comparatively few years. Large amounts of fish scrap, high-grade animal tankage, cotton-seed meal, etc., formerly used, are now more valuable as feeds for stock and are so used, their place in fertilizers being taken by "base goods"—acid phosphate, in the manufacture of which low-grade nitrogenous materials, as hair, feathers, wool waste, leather scrap, etc., have been added and dissolved by the acid with the rock phosphate, making both available at the same time—or by nitrate of soda or sulfate of ammonia. These are very soluble and quickly available, but the nitrate or sulfate must be used with more care in hills and drills than the slowing soluble tankage, cotton-seed meal, and similar materials, because a very strong solution of any fertilizer is liable to injure germinating seeds and young plants.

In making mixtures containing sulfate of ammonia, one cannot use lime, ashes, carbonate of potash, nor any soluble alkaline substance, because it will set the ammonia free and it will escape more or less completely as a gas, as can readily be detected by the odor of free ammonia. One can easily demonstrate this by taking a spoonfull of the ammonium compound and add equal amount of slaked lime and mixing them in a cup or some appropriate vessel, using water enough to make the mixture moist, if this is necessary.

In mixing home mixtures there are two main problems—1st: to calculate the analysis from a certain formula; and 2nd: to make up a formula to correspond to a given analysis. In each case the analyses of the ingredients to be known, at least approximately.

In any case the analysis of any ingredient is to be multiplied by the fraction it constitutes of the mixture. On generally operates on a ton basis, though this is not necessary. Thus, if 200 lbs. of 10% tankage is used in a ton mixture, this 200 lbs. will give 200/2,000 of 10%, or 1% of ammonia in the mixture. Where several ingredients are mixed, it is convenient to use a table, thus:

(NOTE.—The analyses are given in the order Ammonia, Available Phosphoric Acid, Potash.)

| INGREDIENTS | Analysis Ingredients | Proportion in Mixture | Analysis of Mixture |
|---|---|---|---|
| 1400 lbs. Dissolved Rock..... | 0–16– 0 | 0.7 | 0 –11.20–0 |
| 200 " Dissolved Bone..... | 2–12– 0 | 0.1 | 0.20– 1.20–0 |
| 100 " Sulfate of Ammon. | 25– 0– 0 | 1/20 | 1.25–0 –0 |
| 100 " Nitrate of Soda.... | 18– 0– 0 | 1/20 | 0.90–0 –0 |
| 100 " Kainit ..... | 0– 0–12 | 1/20 | 0 –0 –0.60 |
| 100 " Muriate Potash..... | 0– 0–50 | 1/20 | 0 –0 –2.50 |
| Analysis of the Mixture..... | | | 2.35–12.40–3.10 |

In problem No. 2 one works on the same principle but in the other direction; that is, from the analysis end back to pounds. Suppose it is required to make up a fertilizer analyzing 3-10-3. If all the available phos. acid is to come from 16% rock, one will require 10/16 of the ton to be dis. rock, or 1,250 lbs.

Tabulating as above:

| | | | |
|---|---|---|---|
| 1250 Dis. Rock..... | 0–16– 0 | 10/16 | 0–10–0 |
| 333 Nitrate Soda..... | 18– 0– 0 | 3/18 | 3– 0–0 |
| 120 Muriate Potash..... | 0– 0–50 | 3/50 | 0– 0–3 |
| 297 Filler ..... | 0– 0– 0 | | |

If, instead of the Muriate of Potash, Kainit were used, it would require 3/12 of a ton (Kainit contains 12% of potash), which is 1/4 of a ton, or 500 lbs. However, this would make more than a ton and disarrange the other figures, so by making a few trials of mixtures of Muriate and Kainit, the total number of pounds of both to be 417, so as to make the even ton of the mixture, one finds that 26 lbs. of Muriate and 391 lbs. of Kainit will give the necessary result without any filler.

**KEY TO SYMBOLS USED IN TABLE II.**

| AMMONIA (Nitrogen) | PHOSPHORIC ACID AVAILABLE | POTASH SOLUBLE |
|---|---|---|
| A—Ammonium Sulfate | A—Animal Matter | a—Ashes |
| B—Bone | B—Bone | C—Cement by-product |
| b—Base Goods | b—Base Goods | K—Kainit |
| C—Cyanamid | F—Fish | M—Muriate |
| c—Crab Scrap | R—Dissolved Rock | m—Sheep Manure |
| D—Blood | c—Crab Scrap | N—Nebraska Potash (Sulfate and Carbonate) |
| F—Fish | m—Sheep Manure | S—Sulfate |
| H—Humus or Peat, Treated | T—Tankage | T—Tobacco Stems |
| K—Tobacco Stems | *Total Phosphoric Acid in Bone | k—Kelp |
| M—C. S. Meal | **Total Phosphoric Acid in Untreated Rock | t—Trona (California) |
| m—Sheep Manure | | c—Carbonate |
| N—Nitrate Soda | | B—Sugar Beet Res. Char. |
| Na—Nitrate of Ammonia | | D—Double Manure Salt |
| T—Animal Tankage | | s—Cottonseed-meal |
| t—Garbage Tankage | | n—Nitrate of Potash |
| L—Linseed Meal | | |

## CHEAP (?) FERTILIZER.

After TABLE I was made up we have had several inquiries in regard to a fertilizer called "Walter's Crop Grower," manufactured by J. & R. Walter, Hanover, Pa., which attracted some attention in several of the northern Maryland counties by its low price and high odor. It is said to be made of paper mill refuse and dead animals. The guaranteed analysis is as follows:

Nitrogen ..... $\frac{17}{100}$ of 1%

Equal to Ammonia..... $\frac{21}{100}$ of 1%

Total Phosphoric Acid..... $\frac{42}{100}$ of 1%

Potash, Soluble in Water..... $\frac{12}{100}$ of 1%

Applying our comparative values to this guarantee we get:—Ammonia $1.68, Phosphoric Acid, $0.25 and Potash $0.36, or a total value of $2.29 per ton guaranteed.

Analyses of two samples for ammonia gave 0.15 and 0.17%, respectively, an average of 0.16%, giving the value of the ammonia in a ton only $1.28. This, added to the guaranteed values for Phosphoric Acid and Potash, gives a value of $1.89 per ton, which is less than the cost of the bags and about one-third the value of ordinary manure.

**Maryland Fertilizer Tonnage, to the Nearest Thousand, by years:**

| 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 |
|---|---|---|---|---|---|---|
| 178,000 | 179,000 | 170,000 | 155,000 | 193,000 | 175,000 | 175,000 |

**FERTILIZER REGISTRATION. SEE PAGE 29.**